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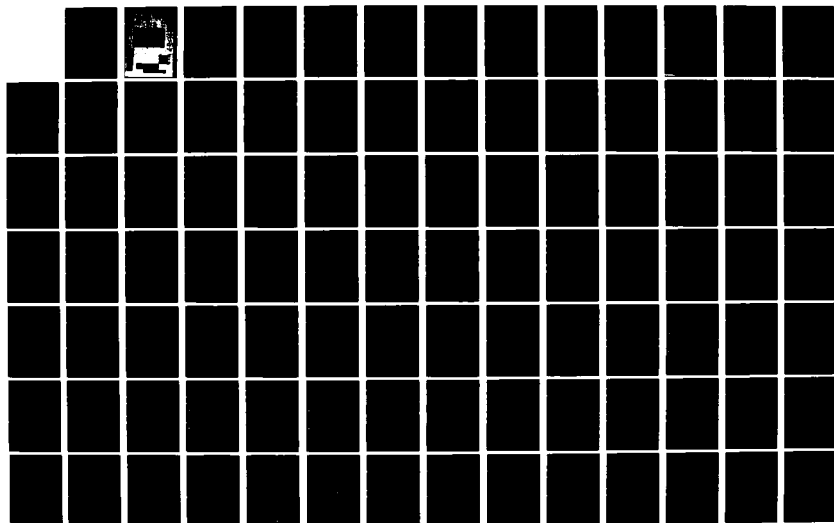
JOB LANGUAGE PERFORMANCE REQUIREMENTS FOR MOS 13B
CANNON CREWMAN VOLUME I & II (U) DEFENSE LANGUAGE INST
LACKLAND AFB TX ENGLISH LANGUAGE CENTER OCT 82

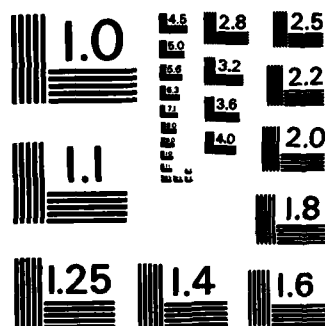
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JOB LANGUAGE PERFORMANCE REQUIREMENTS
FOR ~~13B~~ *MOS*
CANNON CREWMAN

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The Job Language Performance Requirements (JLPR) study was conducted to deter- mine language tasks the soldier must do in studying/performing job tasks. The language skills (listening, reading, writing, speaking) required to learn each Army job task were identified, conditions studied and standards determined. The data that generated the JLPR is identified. ←		

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**JOB LANGUAGE PERFORMANCE REQUIREMENTS
FOR 13B**



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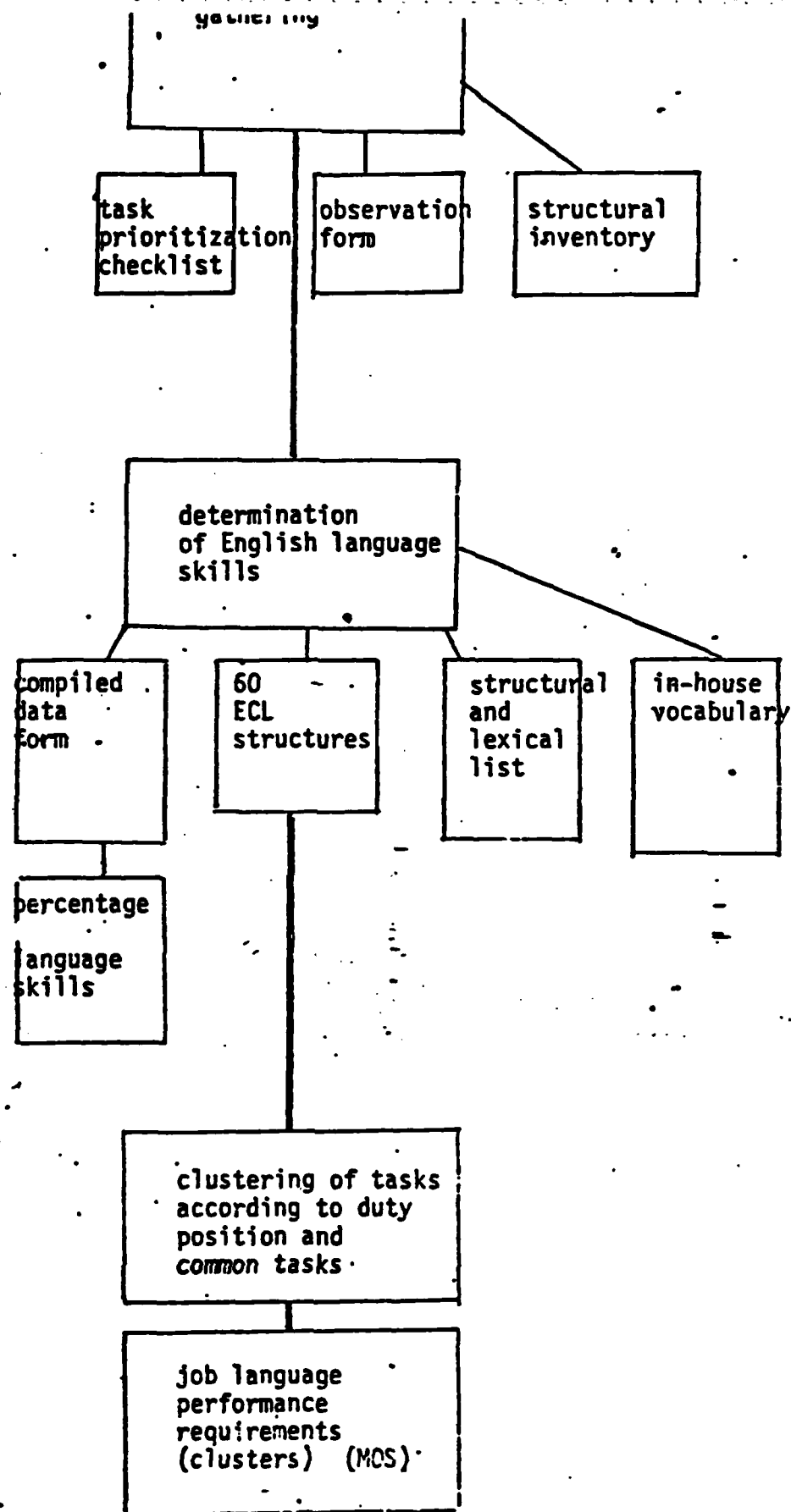


FIGURE 1

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Appendix five is the final list of structural and lexical items found through data gathering and organization.

Appendix six is the in-house vocabulary list. This is a task by task listing of the vocabulary observed in actual training situations as well as in the Soldier's Manual.

Appendix seven is the machine generated vocabulary for -13B prepared by TRADOC.

Appendix eight is the list of structural and lexical items requisite to 60 ECL. These were determined through coordination with the Tests and Measurements Section at the Defense Language Institute and the Defense Language School, American Language Course materials.

Instructions for review of Job Language Performance Requirements for 13B.

Military Reviewers:

Please look over Sections I through IV. These sections discuss the gathering of data, organization of data, and clustering of the tasks. Sections V and VI are the main products of the entire process, the Job Language Performance Requirements per cluster, and finally, for the entire MOS.

Pay careful attention to the Appendices one through eight. These appendices contain all the information used to determine the Job Language Performance Requirements.

You as the reviewer have first hand experience with the tasks and training. Your review will help add much needed input to the design and development of the course. Please write any suggestions or changes directly on the document.

As you look over the document, please keep the following questions in mind;

1. Do the requirements identify the language skills necessary in AIT and the Unit?
2. Do the requirements clearly state what the soldier must do in regard to language?
3. Are there any terms that need to be added or removed completely?
4. On what language skill is the most emphasis placed in AIT and Unit?
5. How much carry-on is there between AIT and Unit requirements in language skills, structure and vocabulary?

Thank you for your cooperation. It is greatly appreciated.

An explanation of Appendices one through eight follows:

Appendix one is the Task Prioritization Checklist. It was taken to the field to collect the raw data. This form was approved for use by the Department of the Army.

Appendix two is the Task/Inventory Completed Data Form. It was used to organize data from Unit and AIT respondents.

Appendix three is the Percentage of Language Skills. This form includes computations of language skills for each task cluster.

Appendix four is the Observation Form used in the recording of types of listening and speaking skills required, as seen by observers, in the learning and performing of a task. The variety of environmental situations is also included on this form.

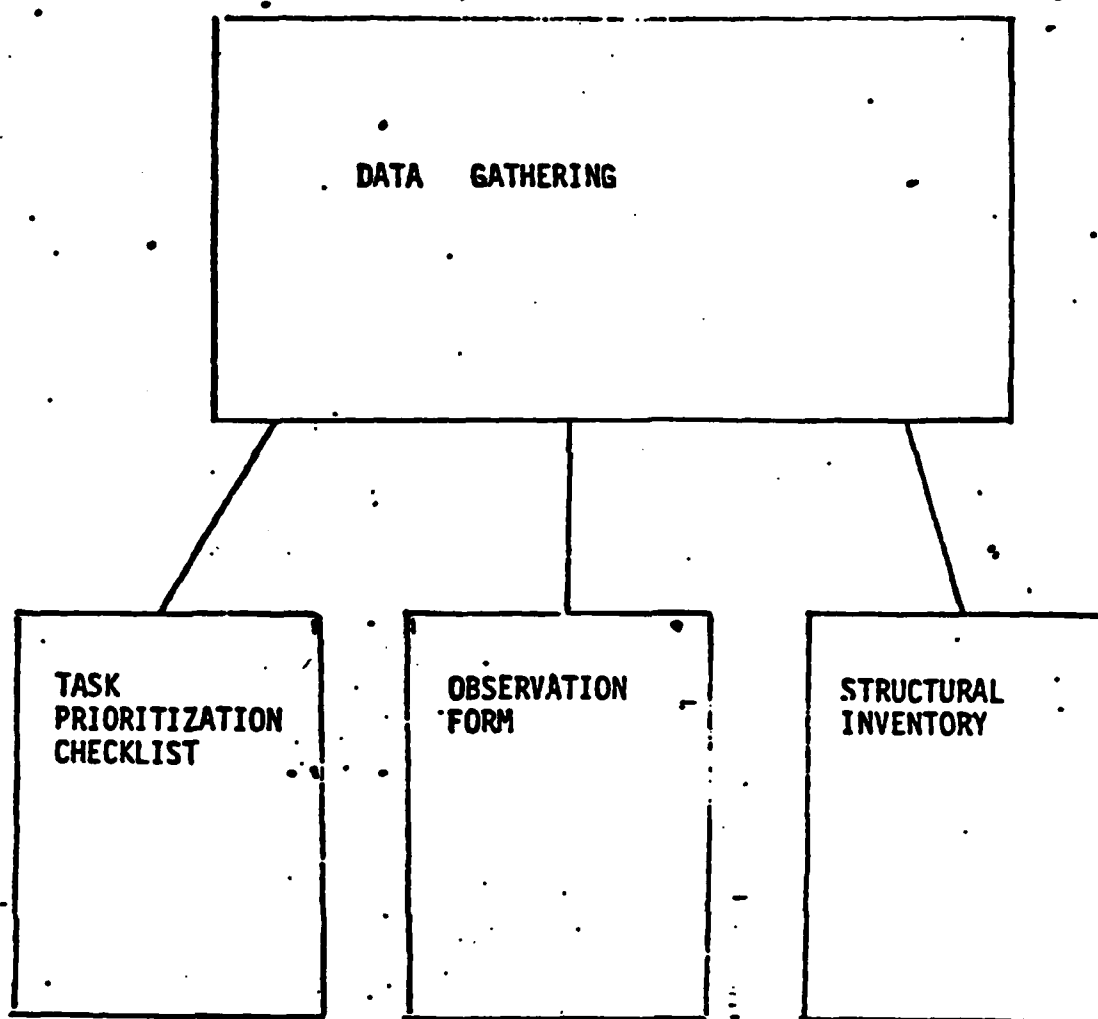


FIGURE 2

1-2-13B

SECTION I

DATA GATHERING

INTRODUCTION

To determine the Job Language Performance Requirements for 13B data had to be gathered. The gathering of data and form used are discussed in the following section.

SECTION 1: DATA GATHERING

In order to establish job language performance requirements for MOS 13B, Cannon Crewman, the curriculum department at the Defense Language Institute (DLI), analyzed the current learning and working situations, user populations and individual tasks pertaining to 13B. The goal was to collect data which would help identify the job language performance requirements not only in the MOS but also in the field of language.

To analyze learning and working situations, user populations and individual task, training specialists visited AIT and Unit cadre at Ft. Sill, Ok., Ft. Lewis, Wa. Here, interviews were conducted using a Task Prioritization Checklist, (Appendix 1). First line supervisors answered the following questions:

1. Is the task taught?
2. Is the task tested?
3. How is the task tested?
4. How is the task taught?
5. How important are speaking, listening, reading and writing?
6. What are the results of poor performance?

Additional data was gathered through use of an Observation Form and a structural analysis of the Soldier's Manual.

The Observation Form (Appendix 4), was used by the personnel conducting the interviews to record actual observations of the learning situations, populations, tasks, and language.

The lexical and structural analysis was done by a panel of experts who first listed all structures found in the Soldier's Manual and then all structures, standard and non-standard noted on the Observation forms for 13B. All vocabulary from the Soldier's Manual was also listed. Then all lists were combined into a lexical and structural inventory.

CONCLUSION:

The tools for data gathering were:

1. The Task Prioritization Checklist (Appendix 1)
2. The Task Inventory Compiled Data Form (Appendix 2)
3. The Observation Form (Appendix 3)
4. A Structural and Lexical Inventory (consisting of rough drafts of all vocabulary and structures in 13B.

These tools were used to form the data pool from which the information to determine the Job Language Requirements was found.

SECTION IV

THE JOB LANGUAGE PERFORMANCE REQUIREMENTS

INTRODUCTION

The goal of data gathering and organization was the Job Language Performance Requirements. The following section discusses the format for the Job Language Performance Requirements.

SECTION II

DETERMINATION OF ENGLISH LANGUAGE SKILLS

INTRODUCTION

The data gathered was not immediately useful. It had to be organized into information. The following section discusses the organization of the data to determine the English language skills.

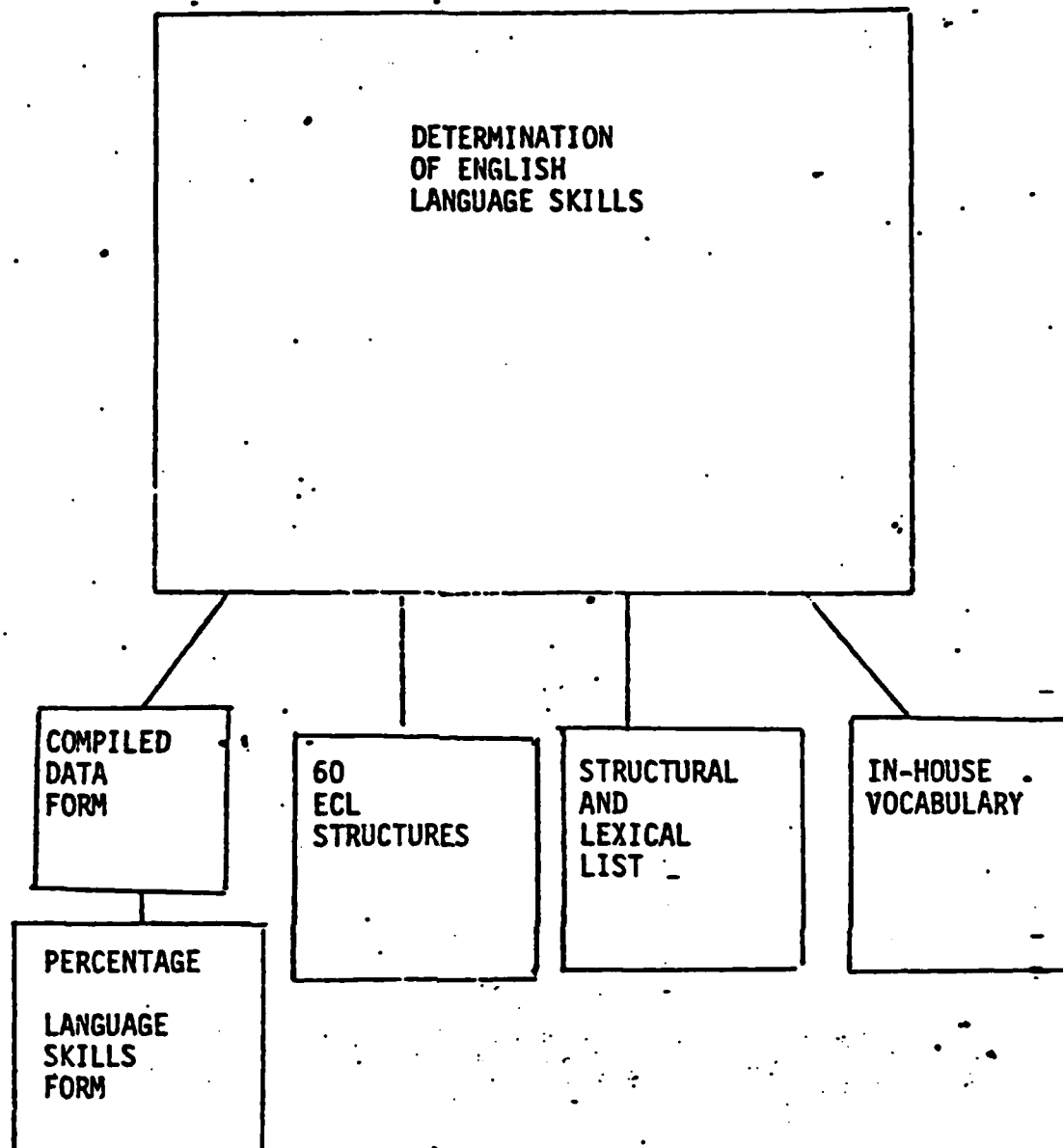


FIGURE 3

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The data gained was summarized to determine the English Language skills which the soldier must learn to perform the task.

The Compiled Data Form, Appendix 2, was used to organize the data from the user populations. The information from the Task Prioritization Checklist was directly recorded on this form. Three variables from the prioritization checklist were used to determine the language skills used. They were:

1. Methods of teaching.
2. Methods of testing.
3. The ratings given to the English language skills

The three variables were identified as to English language skills involved. The following skills were determined:

VARIABLE	ENGLISH LANGUAGE SKILLS
Methods of Teaching demonstration lecture hands on self-paced	listening, listening, writing listening reading, writing
Methods of Testing performance oral written	listening speaking writing, reading
Rating of English Language Skills listening speaking reading writing	*a response of 2 or 3 on a scale of 1 to 3 was tallied a response of 1, 2, or 3 on a scale of 1 to 5 was tallied

*This is the top portion of the Task Prioritization Checklist from which the information was taken.

*RATING: *RATING:		IS TASK TAUGHT?		IMPORTANCE OF		HOW TAUGHT?		IS TASK TESTED?		HOW TESTED?	
1 = high	1 = low	YES	NO	LISTENING*	READING*	WRITING*	LECTURE	SELF-PACED	DEMONSTRATION	HANDS-ON	YES
2 =	2 = med										
3 = average	3 = high										
4 =											
5 = low											
		YES	NO	WRITTEN	ORAL PERFORMANCE	YES	NO	WRITTEN	ORAL PERFORMANCE	YES	NO

Answers to the three variables were tallied on the Percentage Language Skills Form. An average was then found using the following formula:

Total number of possible answers according to skill in each task multiplied by the total number of respondents to the task.

divisor

Total tally of responses per task per skill from the Compiled Data Form.

dividend

This indicated the percentage of use of the skill in the task. Percentages of skills in the duty position and in the MOS were found by incrementing task number and number of responses, (See Appendix 3). Percentages found in 13B were:

Listening	42.3 %
Speaking	29.2 %
Reading	12.3 %
Writing	13.3 %

As shown by the figures, listening is the most important skill in 13B. However, in a particular duty section, percentages varied. Appendix 3, the Percentage Language Skills Form, shows percentages of skills in each duty position.

Organization of data pertaining to lexical and structural items was done by comparing the in-house structural and lexical list with a list of 60 ECL (English Comprehension Level Examination) requisites. The 60 ECL requisites were determined through research of the American Language Course (ALC) materials. A panel of experts, all of whom have taught ALC materials, listed all lexical and structural items of which mastery is necessary for attainment of a 60 ECL. By comparing the lists, redundancies and unnecessary structures were eliminated from the original list.

We are concerned with those lexical and structural items that are necessary to learn and perform tasks in MOS 13B. The non-native soldier needs these structural and lexical items to successfully complete MOS training. Appendix 5 is the final list of lexical and structural items necessary in 13B. A 60 ECL was used as a base line and does not reflect the specified ECL for entry into MOS training. The 60 ECL was chosen because experience at DLIELC (Defense Language Institute, English Language Center), has shown a 60 ECL to be an excellent indicator of success in training of a non-native speaker.

The lexical and structural items are identified by grammatical title. Appendix 6 and 7 are the actual word, term, and acronyms found in 13B.

- The lexical and structural list is not exhaustive, but it would be impossible to list every structural or lexical item the soldier would be exposed to.

Appendix 6 is a machine generated vocabulary list made by the United States Army Training and Doctrine Command at Fort Monroe, Virginia. Through a review of the current POI, (13B) Skill Level 1 and Soldier's Manual, a subjective evaluation was made on each task to determine the five vocabulary reductions. (Appendix 7) The five categories were:

1. most important
2. substantial importance
3. important
4. limited importance
5. least importance

For our uses, a language oriented reduction was also needed; therefore, an in-house vocabulary list was made.

Using the Soldier's Manual and personnel's observations, a vocabulary list for each task was made. The words were categorized in three ways:

1. Basic Vocabulary. Basic vocabulary is defined as those words, terms, and acronyms, that could be taught in basic training or a pre-enlistment course.
2. General vocabulary. General vocabulary is defined as those words, terms, and acronyms, common to everyday English.
3. Technical vocabulary. Technical vocabulary is defined as those words, terms, and acronyms, that are specific to the MOS training field.

In order to explain any redundancies which may be noted with respect to the language structures and vocabulary items cited in the language performance requirements for the Basic Training ESL course, it should be pointed out that at present it is planned that the basic structures and general English vocabulary necessary for attainment of a 60 ECL will be developed in the materials designed for use either in the Basic Training ESL course or the Pre-enlistment course. The basic soldiering vocabulary will also be developed in the BT materials. It is planned that any language structures identified in the analysis of the 13B Soldier's Manual and the Observation Forms not listed for 60 ECL (Appendix 8), will be developed in the MOS course. Also, to be included as part of the language performance requirements is the MOS specific vocabulary. (Appendix 6)

CONCLUSION:

Organization of the data included the recording of responses on the Task Inventory/Compiled Data Form, use of the Percentage Language Skills Forms, and the In-house Structural Analysis list. The 60 ECL list of structural items was also used to further validate the in-house inventory of lexical and structural items. The actual lexical items in 13B are listed task by task. All of this information was then used to determine the Job Language Performance Requirements for MOS 13B.

SECTION III

CLUSTERING OF COMMON AND DUTY POSITION TASKS

INTRODUCTION

To treat each individual task would be time consuming therefore the tasks were clustered.

The following section contains a discussion of the clustering process.

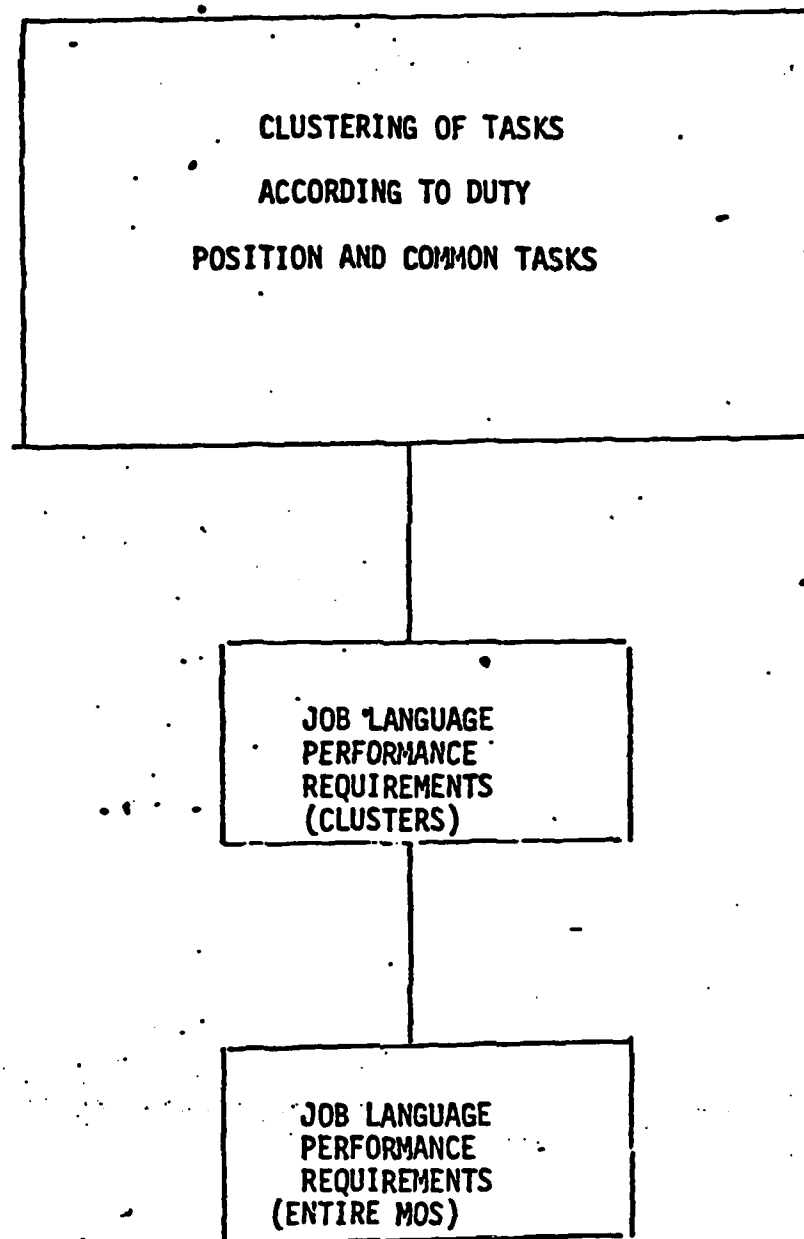


FIGURE 4

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The Soldier's Manual for MOS 13B contains 279 tasks. The necessity to keep the flow of teaching and flexibility of teaching one before or after another warranted clustering of the tasks.

Clustering was done by using the common and duty position tasks in the 13B Soldier's Manual.

The following clusters are in MOS 13B:

1. General Cannoneer
2. Cannoneer Maintenance
3. Ammunition
4. First Aid
5. Nuclear, Biological and Chemical Defense
6. Field Communications
7. Gunner
8. Individual Weapons (M16A1 Rifle)
9. Individual Weapons (LAW)
10. Individual Weapons (Grenades)
11. Individual Weapons (Claymore)
12. Crew Served Weapons (M60 Machinegun)
13. Crew Served Weapons (.50 Caliber Machinegun)
14. Map Reading
15. Combat Tactics and Intelligence
16. Training and Leadership
17. Additional Tasks and Duties - M101A1/M102
18. Additional Tasks and Duties - M114A1
19. Additional Tasks and Duties - M109/M109A1
20. Additional Tasks and Duties - M107/M110
21. Additional Tasks and Duties - M115
22. Radio/Telephone Operator
23. Vehicle Driver
24. Nuclear Security
25. Demolitions
26. Assembler: 8-inch Atomic Projectile
27. Assembler: 155mm Atomic Projectile
28. Artillery Mechanic (All)
29. Artillery Mechanic (M101A1/M102)
30. Artillery Mechanic (M114A1)
31. Artillery Mechanic (M109/M109A1)
32. Artillery Mechanic (M107/M110 Series)

SECTION IV

THE JOB LANGUAGE PERFORMANCE REQUIREMENTS

INTRODUCTION

The goal of data gathering and organization was the Job Language Performance Requirements. The following section discusses the format for the Job Language Performance Requirements.

SECTION IV: JOB LANGUAGE PERFORMANCE REQUIREMENTS

The format for the Job Language Performance Requirements is:

TASK:
CONDITION:
STANDARD:

A. TASK

The Job Language Performance Requirements are tasks specifying what the soldier must do in the area of language. A task addressing language would be one of reading, listening, speaking or writing. The soldier needs the language task to learn or perform the MOS task. Tasks for 13B as seen in the Soldier's Manual are those which pertain to MOS 13B Cannon Crewman. To write these as language tasks required the following explanations of what the soldier would speak, read, listen and write.

SPEAKING

Produces oral utterances to report/inform/explain/interact/elicit response/respond.

Analysis of 13B indicates verbal reports entailing those activities directly related to MOS 13B, Cannon Crewman.

The speaking act to respond or elicit response is in 13B, an oral response to a command or visual signal involving the emplacing, loading, laying, and firing of field artillery cannons.

Speaking to elicit response in reference to 13B involves maintaining communication with FDC and maintaining nuclear security.

Speaking to explain involves situations of reporting or explaining equipment maintenance problems.

Speaking to inform involves real time information such as reporting locations, coordinates, and positions in the firing of field artillery cannons,

READING

Read for information/Read to learn.

Printed and written materials are used throughout 13B. The soldier reads technical manuals, field manuals, soldier's manual, written communication and audio-visual aids. Content of these materials is presented in simple factual words or sentences to complex passages containing highly technical vocabulary and ellipsis. The purpose is to teach the student, so, the student reads them to learn. From the analysis of 13B the task of reading supplements the lectures and demonstrations or it precedes the tests. Reading to learn involves reading names, attributes, information, procedures, explanations of how systems work, concepts, vocabulary terms, and definitions which are committed to long or short term memory and for immediate or later recognition.

Basically the soldier will use these reading materials to supplement what is stated in lecture by integrating the information from the different texts or written communiques.

Reading materials such as this requires the ability to acquire meaning from the word (we can assume he can already decode in the MOS). The soldier must develop the ability to understand the words in context. Then the soldier must read in thought units, and finally select and understand the main ideas. The soldier must retain, apply and integrate these ideas with past experience to use in the present.

Reading to learn then is the aforementioned synthesis or formulation. Retaining what is read in long term memory for integration in experiences.

Reading for information does not involve such a thought synthesis. The read material is retained in short term memory and processed as necessary clarification of what had been read in the process of learning. The soldier needs the data at present so it is accessed from a storage device for immediate use and then returned. In reading to learn, the accessing of the information is immediate but the returning of the information does not happen. The information is kept for further processing. (It is similar to a real time computer)

LISTENING

Listen to oral information to learn or report.

Analysis of 13B indicated lecture as a main method of instruction. The lecture is often supplemented by a demonstration. The soldier listens to the lecture to learn data pertinent to the task. In the presentation of the lecture, analysis indicated many variables. The soldier hears sub-standard usages, various registers, colloquialisms, or profanity in a situation ranging from a barracks to a field. The soldier must differentiate between the types of language operations. Is it expression, exchange, description, explanation, argumentation, persuasion, designation, statement, request or order? The oral information may be directly from the speaker, over a telephone, radio, TV, or tape. The soldier must formulate all to learn. The soldier must organize and gain meaning from what is heard. The soldier must identify or infer the main ideas or major points.

Spontaneous oral information, that other than controlled speech, involves more inferences, more integration and more reasoning. The soldier must deduce actions, attitudes and opinions and finally the meaning of what is being conveyed.

Because the types of listening are so vast and the presentations of oral language are so varied, exactly how a non-native student has to listen cannot be specified. You can test listening comprehension but not the actual listening required. Usually a bilingual person will think in his or her language. This supposes that some bilingual persons may translate the heard language into their language to understand and learn.

The soldier first needs the ability to comprehend the spoken word. We can assume that the soldier can do this because he is in MOS training.

As in reading, the soldier must understand the words in context. The soldier must understand the thought units and finally select and understand the main idea. The soldier must retain these ideas and integrate them.

Unlike reading, listening to learn is not as structured and the soldier is required to sift through much more irrelevant stimuli to finally extract the pertinent data.

Listening can be broken into two main types in 13B. In listening to learn, information is presented spontaneously/or constrained. In listening to respond, information is usually presented spontaneously.

Analysis of 13B did not and could not specify all types of spontaneous language the soldier would be exposed to. The POI though, does show the general form of the constrained oral language the soldier must listen to in order to learn the task.

Listening to learn as indicated refers to specific data related to the MOS. Listening in this case being critical listening. The soldier must isolate, conceptualize, and retain that oral communication that is pertinent to successful task completion.

B. CONDITIONS

The condition is what the soldier will be given to do the task. For language purposes, he will be given certain structural and lexical features as found through the data gathering and organization of the data from interviews and observations. To say that the soldier will be given these structures and only these structures is impossible: Language use is spontaneous and the MOS environment is not one of constrained language. For the MOS job, the soldier is given paper, pencil, and printed materials, but not for language. Again, for the job that the soldier will be given, the material under normal working conditions or other conditions may be added such as with or without protective gear or in darkness, but this cannot be specified in the field of language so we must assume all teaching conditions as found in Appendix 4.

The soldier will read lists, tables, procedures, checklists or signs, and will hear scenarios, lectures, explanations, and commands but these cannot exactly in each task. Therefore these are listed with the Job Language Performance Requirements as possible conditions unless they are specified.

C. STANDARDS

The standard for our purpose is 100%. The 100% standard for understanding or speaking cannot be tested as can one saying the soldier will disassemble a .45 caliber pistol in 8 minutes. Because of this, 100% understandable speech or 100% legibility is used as a reference.

CONCLUSION:

The Job Language Performance Requirements were first written for each cluster. They are then indicative of defined topic areas within the MOS. They indicate necessary language tasks within the soldier's working area.

The Job Language Performance Requirements for the clusters were then combined into the Job Language Performance Requirements for the entire MOS.

Mastery of the Job Language Performance Requirements will remove language as a deterrent both in the performance of a soldier's duties in MOS 13B and also in the pursuance of a successful career in the United States Army.

SECTION V

JOB LANGUAGE PERFORMANCE REQUIREMENTS (CLUSTERED)

INTRODUCTION

Specific Job Language Performance ^{by} Requirements were identified, the process described in Sections I, II, III, and IV.

The following section contains the Job Language Performance Requirements for each cluster. To facilitate cross-referencing the task clusters, and percentage of language skills, follow the Job Language Performance Requirements for each cluster.

GENERAL CANNONEER

I. PERCENTAGE LANGUAGE SKILLS

Listening	36%
Speaking	38%
Reading	22%
Writing	15%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to perform
CONDITIONS: Given a verbal command in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of procedures, captioned illustrations, warnings and references
STANDARDS: 100% understanding of printed content

TASK: Listen to learn
CONDITIONS: Given oral instructions in any training situation (Appendix 4) using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

TASK: Produce oral utterances over operational field telephone
CONDITIONS: Given the requirement to orally communicate using the phonetic alphabet in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understandable oral utterances

III. TASK NUMBER AND TITLE

061-266-1101	Prepare a Position to Receive/Emplace a Cannon
061-266-1103	Emplace/Recover Collimator
061-266-1104	Emplace/Recover Aiming Posts
061-266-1701	Establish and Maintain Communications with FDC
061-266-1702	Monitor/Relay and Record Fire Commands
061-266-1215	Set/Lay the Cannon for Quadrant with the Range Quadrant
061-266-1216	Measure the Quadrant with the Range Quadrant

061-266-1217 Sight on a target with a Direct Fire/Elbow
Telescope (except M114A1)
061-266-1218 Fire the Cannon
061-266-1219 Clear Powder Chamber After Firing
061-266-1517 Unload the Cannon (Separate Loading Ammunition)
061-266-1220 Command "Check Firing" when Unsafe Conditions Exist

061-266-1217	Sight on a target with a Direct Fire/Elbow Telescope (except M114A1)
061-266-1218	Fire the Cannon
061-266-1219	Clear Powder Chamber After Firing
061-266-1517	Unload the Cannon (Separate Loading Ammunition)
061-266-1220	Command "Check Firing" when Unsafe Conditions Exist

I. PERCENTAGE LANGUAGE SKILLS

Listening	57%
Speaking	58 %
Reading	33 %
Writing	0 %

II. JOB. LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Read for information
CONDITIONS: Given printed MOS materials in the form of pictures with captions, procedures, tables and explanations, reference manuals
STANDARDS: 100% understanding of printed content

TASK: Produce oral utterances to inform
CONDITIONS: Given a requirement to make a verbal report in any training situation (Appendix 4) using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral utterances

TASK: Listen to learn
CONDITIONS: Given oral instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

III. TASK NUMBER AND TITLE

061-266-1401	Inspect and Clean Collimator
061-266-1402	Inspect and Clean Aiming Posts and Night Lighting Devices
061-266-1403	Clean Cannon Tube and Chamber

I. PERCENTAGE LANGUAGE SKILLS

Listening	42%
Speaking	30%
Reading	13%
Writing	10%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions and a brief oral message including prowords in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral content
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of requirements, pictures and labels, references
STANDARDS:	100% understanding of printed content
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), and with standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARD:	100% understanding of oral content

III. TASK NUMBER AND TITLE

551-721-1870	Operate the Material Handling Hoist on the M548 Cargo Carrier
061-266-1501	Transport Cannon Ammunition on Vehicles
061-266-1502	Prepare Cannon Ammunition for Helicopter Resupply
061-266-1504	Store Cannon Ammunition at a Cannon Position
061-266-1506	Prepare Separate Loading Ammunition for Firing

I. PERCENTAGE LANGUAGE SKILLS

Listening	71 %
Speaking	71 %
Reading	0 %
Writing	21 %

II. JOB. LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), and with standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures, captioned illustrations, figures and references
STANDARDS:	100% understanding of printed content
TASK:	Listen to learn
CONDITIONS:	Given oral instructions to perform task specific assignments in any training situation (Appendix 4) using standard and non-standard lexical and structural items (Appendix 5 & 6)
STANDARDS:	100% understanding of oral information

III. TASK NUMBER AND TITLE

061-266-2221	Lay the Cannon for Initial Direction of Fire
061-266-2222	Verify Direction of Fire with Reciprocal Check
061-266-2223	Aline Collimator/Aiming Posts
061-266-2224	Boresight the Panoramic Telescope with the M140 Alinement Device
061-266-2229	Set/Lay the Cannon for Deflection
061-266-2230	Sight on a Target During Direct Fire with the Panoramic Telescope
061-266-2231	Refer the Piece

I. PERCENTAGE LANGUAGE SKILLS

Listening	45 %
Speaking	54 %
Reading	33 %
Writing	27%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read for information
CONDITIONS:	Given printed MOS materials in the form of pictures with captions, procedures, table and explanations
STANDARDS:	100% understanding of printed content
TASK:	Produce oral utterances to explain
CONDITIONS:	Given a simple medical scenario requiring an oral interpretation in any training situation (Appendix 4) using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral communication
TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication

III. TASK NUMBER AND TITLE

081-831-1001	Perform Mouth-to-Mouth Resuscitation
081-831-1002	Perform Cardiopulmonary Resuscitation - CPR
081-831-1004	Apply First Aid Measures to Stop Bleeding
081-831-1005	Give First Aid to Prevent Shock
081-831-1006	Splint a Suspected Fracture
081-831-1007	Give First Aid for Burns
081-831-1008	Give First Aid for Heat Injuries
081-831-1009	Give First Aid for Wet or Cold Injuries
081-831-1011	Give First Aid to a Nerve Agent Casualty
081-831-1012	Give First Aid to a Blister Agent Casualty
081-831-1013	Give First Aid to a Blood Agent Casualty
081-831-1014	Apply Mask-to-Mouth Resuscitation to a Chemical Agent Casualty
081-831-1015	Give Back-Pressure Armlift Artificial Resuscitation to a Chemical Agent Casualty

I. PERCENTAGE LANGUAGE SKILLS

Listening	45 %
Speaking	17%
Reading	26 %
Writing	12 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of procedures captioned pictures and notations defined as explanations
STANDARDS:	100% understanding of printed material.
TASK:	Listen to perform
CONDITIONS:	Given oral warnings regarding simulated NBC situation (scenario) in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral utterances
TASK:	Write to record
CONDITIONS:	Given a requirement to make a written report
STANDARDS:	100% legible written content
TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4) using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given NBC-Situations requiring oral alarms
STANDARDS:	100% understandable oral utterances
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), and with standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication

III. TASK NUMBER AND TITLE

031-503-1001	Perform Operator's Maintenance on an M17-Series Protective Mask
031-503-1002	Put on and Wear a Protective Mask
031-503-1003	Store Protective Mask With Hood in Carrier
031-503-1004	Recognize and Protect Self Against a CB Hazard

III. TASK NUMBER AND TITLE

031-503-1005	Recognize and Protect Self Against a Nuclear Hazard
031-503-1006	Give Visual, Vocal, and/or Sound Alarms for Chemical or Biological Attack
031-503-1007	Decontaminate Self
031-503-1008	Decontaminate Individual Equipment
031-503-1009	Satisfy Personal Needs in a Chemical Environment
031-503-1011	Perform Operator's Maintenance on an M24, M25, or M25A1 Protective Mask
031-503-1012	Put On and Wear an M24, M25, or M25A1 Protective Mask
031-503-1014	Identify a Chemical Agent Using ABC-M8 Detector Paper
031-503-1015	Put on and Wear Protective Clothing

FIELD COMMUNICATIONS

I. PERCENTAGE LANGUAGE SKILLS

Listening	44 %
Speaking	30 %
Reading	13 %
Writing	13 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Read to learn
CONDITIONS: Given printed MOS training material in the form of instructions, pictures with explanations and sample messages using prowords
STANDARDS: 100% understanding of printed content

TASK: Produce oral utterances over radiotelephone
CONDITIONS: Given the requirement to orally communicate using the phonetic alphabet in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understandable oral utterances

TASK: Listen to perform
CONDITIONS: Given oral instructions and a brief oral message including prowords in any training situation (Appendix 4) using standard and non-standard lexical structural items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral content

TASK: Write to record
CONDITIONS: Given a requirement to complete communication forms (DA Form 2404) and logs
STANDARDS: 100% legibility of written communication

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), and with standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral responses

III. TASK NUMBER AND TITLE

113-587-2018	Operate Vehicle Intercommunications Set AN/VIC-1
113-600-1001	Install Telephone Set TA-312/PT
113-600-2001	Operate Telephone Set TA-312/PT
113-600-3001	Perform Operator Preventive Maintenance on Telephone Set TA-312/PT
113-588-3011	Perform Operator Maintenance on Communications Wire

MAP READING

I. PERCENTAGE LANGUAGE SKILLS

Listening	27 %
Speaking	43 %
Reading	0 %
Writing	0 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read for information
CONDITIONS:	Given printed MOS training material in the form of marked maps, definitions, pictures with explanations, instructions and procedures
STANDARDS:	100% understanding of printed content
TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4) using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Write to record
CONDITIONS:	Given a requirement to record the grid reference
STANDARDS:	100% legible written content
TASK:	Produce oral utterances to inform
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understandable oral communication

III. TASK NUMBER AND TITLE

071-329-7016	Determine Azimuth Using an M2 Compass
071-329-1007	Determine Distance While Moving Between 2 Points on the Ground
071-329-1001	Identify Terrain Features (Natural and Manmade) on the Map
071-329-1002	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System
071-329-1025	Orient a Map Using a Declinated M2 Compass
071-329-7012	Orient a Map to the Ground by Map-Terrain Association
071-329-1005	Determine a Location on the Ground by Terrain Association
071-329-1004	Determine the Elevation of a Point on the Ground Using a Map
071-329-7009	Convert Azimuths (Magnetic or Grid)
071-329-1024	Measure an Azimuth on a Map with a Protractor
071-329-1008	Measure Distance on a Map
071-329-0515	Select a Movement Route Using a Map

III. TASK NUMBER AND TITLE

071-329-1006	Navigate From One Position on a Map or on the Ground to Another Point
071-329-1022	Locate an Unknown Point on a Map or on the Ground by Intersection
071-329-1023	Determine an Unknown Point on a Map by Resection

COMBAT TACTICS AND INTELLIGENCE

I. PERCENTAGE LANGUAGE SKILLS

Listening	49%
Speaking	35%
Reading	15%
Writing	12%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read to learn
CONDITIONS:	Given printed MOS training material in the form of procedures, tables, and warnings.
STANDARDS:	100% understanding of printed content.
TASK:	Produce spontaneous oral utterances to interact
CONDITIONS:	Given the requirement to orally respond to challenges, passwords, and security situations
STANDARDS:	100% understandable oral communication
TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4) using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4) and with standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and make written reports
STANDARDS:	100% understandable oral responses
TASK:	Listen to orally interact
CONDITIONS:	Given oral challenges, passwords, and scenarios in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication

III. TASK NUMBER AND TITLE

071-326-5703	Construct Individual Fighting Positions
051-202-1001	Camouflage/Conceal Self and Individual Equipment
051-202-1003	Camouflage/Conceal Defensive Positions
071-331-0801	Use Challenge and Password
071-312-3007	Prepare a Range Card for an M60 Machinegun
071-331-0802	Process Known or Suspected Enemy Personnel
071-331-0803	Collect/Report Information - SALUTE

III. TASK NUMBER AND TITLE

071-331-0001	Move as a Member of a Patrol
071-331-0806	Identify Opposing Force (OPFOR) Armored Vehicles
071-331-0808	Identify Opposing Forces (OPFOR) Weapons and Equipment
071-326-0601	Use Visual Signals to Control Movement (Mounted)
071-331-0003	Plan a Patrol
071-331-0002	Conduct a Local Security Patrol

I. PERCENTAGE LANGUAGE SKILLS

Listening	80 %
Speaking	50 %
Reading	33 %
Writing	50 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of procedures, captioned illustrations, warnings and references
STANDARDS: 100% understanding of printed content

TASK: Listen to learn
CONDITIONS: Given oral instructions in any training situation (Appendix 4) using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understandable oral responses

TASK: Write to record
CONDITIONS: Given a requirement to record scores and ratings
STANDARDS: 100% legible written content

III. TASK NUMBER AND TITLE

071-311-2001	Perform Operator Maintenance on an M16A1 Rifle Magazine, and Ammunition
071-311-2003	Load, Reduce a Stoppage, and Clear an M16A1 Rifle
071-311-2004	Battlesight Zero an M16A1 Rifle
071-311-2007	Qualify with the M16A1 Rifle

I. PERCENTAGE LANGUAGE SKILLS

Listening	83 %
Speaking	50 %
Reading	0 %
Writing	50 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read for information
CONDITIONS:	Given printed MOS training material in the form of procedures, descriptions, tables and SOP's
STANDARDS:	100% understanding of printed content
TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Write to record
CONDITIONS:	Given any requirement to produce written reports
STANDARDS:	100% legible written content

III. TASK NUMBER AND TITLE

071-318-2201	Prepare an M72A2 LAW for Firing, Restore M72A2 LAW to Carrying Configuration
071-318-2202	Engage Targets with an M72A2 LAW
071-318-2203	Apply Immediate Action to Correct a Malfunction on an M72A2 LAW

I. PERCENTAGE LANGUAGE SKILLS

Listening	68 %
Speaking	40%
Reading	33%
Writing	50%

II. JOE LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of warnings, procedures, definitions, captioned pictures and references
STANDARDS:	100% understanding of printed content
TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Write to record
CONDITIONS:	Given any requirement to produce a written report
STANDARDS:	100% legible written content

III. TASK NUMBER AND TITLE

071-311-2101	Perform Operator Maintenance on M203 Grenade Launcher and Ammunition
071-311-2102	Load, Unload, and Clear the M203 Grenade Launcher
071-311-2104	Engage Targets with an M203 Grenade Launcher and Apply Immediate Action to Reduce a Stoppage
071-325-4401	Perform Safety Checks on Hand Grenades
071-325-4402	Engage Enemy Targets with Hand Grenades

INDIVIDUAL WEAPONS (CLAYMORE)

I. PERCENTAGE LANGUAGE SKILLS

Listening	80%
Speaking	50%
Reading	33%
Writing	50%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of warnings, procedures, definitions, captioned pictures and references
STANDARDS: 100% understanding of printed content

TASK: Produce oral utterances to inform
CONDITIONS: Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understandable oral utterances

TASK: Listen to learn
CONDITIONS: Given oral instructions in the form of a lecture in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understandable oral responses

TASK: Write to record
CONDITIONS: Given any requirement to produce a written report
STANDARDS: 100% legible written content

III. TASK NUMBER AND TITLE

051-192-1003	Install the M18A1 Fragmentation Antipersonnel Mine (Claymore) with and without Tripwires
051-192-1013	Disarm the M18A1 Fragmentation Antipersonnel Mine (Claymore) Equipped with and without Tripwires

CREW SERVED WEAPONS (M60 MACHINEGUN)

I. PERCENTAGE LANGUAGE SKILLS

Listening	16 %
Speaking	15 %
Reading	7 %
Writing	15 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Read for information
CONDITIONS: Given printed MOS training materials in the form of requirements, pictures and labels
STANDARDS: 100% understanding of printed content

TASK: Write to record
CONDITIONS: Given a requirement to complete a range card
STANDARDS: 100% legible written communication

TASK: Read for information
CONDITIONS: Given written MOS training materials in the form of a range card
STANDARDS: 100% understanding of written content

III. TASK NUMBER AND TITLE

071-312-3001	Operate an M60 Machinegun
071-312-3005	Perform Operator Maintenance on an M60 Machinegun and Ammunition
071-312-2320	Mount/Dismount an M60 Machinegun on an M122 Tripod
071-312-3002	Fire the M60 Machinegun for Familiarization
071-099-1001	Engage an Aerial Target with an M60 Machinegun

I. PERCENTAGE LANGUAGE SKILLS

Listening	56 %
Speaking	39 %
Reading	24 %
Writing	18 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read for information
CONDITIONS:	Given MOS printed training materials, pictures with captions, procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances

III. TASK NUMBER AND TITLE

071-313-3462	Mount/Dismount a .50 Caliber HBM2 Machinegun on a Tracked Vehicle
071-313-3451	Perform Operator Maintenance on a Caliber .50 M2 HBM2 Machinegun and Ammunition
071-313-3453	Load, Reduce a Stoppage, Unload, and Clear a Caliber .50 Machinegun
071-313-3455	Set Headspace and Timing on a Caliber .50 Machinegun
071-313-3461	Mount/Dismount a .50 Caliber HBM2 Machinegun on a Tripod
071-313-3454	Engage Targets with a Caliber .50 Machinegun
441-099-1002	Engage an Aerial Target with a .50 Caliber HBM2 Machinegun

TRAINING AND LEADERSHIP

I. PERCENTAGE LANGUAGE SKILLS

Listening	48 %
Speaking	0 %
Reading	17 %
Writing	13 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Read for information
CONDITIONS: Given printed MOS training materials in the forms of procedures, manuals, charts, pictures with captions and explanations
STANDARDS: 100% understanding of printed content

TASK: Listen to perform
CONDITIONS: Given a verbal command in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

TASK: Produce oral utterances to inform and respond
CONDITIONS: Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understandable oral communication

TASK: Write to inform and record
CONDITIONS: Given a requirement to produce written tests and record the results in any training situation
STANDARDS: 100% legible written communication

TASK: Write to record
CONDITIONS: Given a requirement to complete communication forms and logs
STANDARDS: 100% legible written communication

III. TASK NUMBER AND TITLE

071-327-0201	Maintain an Appropriate Level of Physical Fitness (Male Only)
874-896-2010	Prepare to Conduct Individual Training
874-896-2020	Conduct Individual Training
071-328-5301	Inspect Personnel/Equipment

**ADDITIONAL TASKS FOR SELECTED DUTY POSITIONS
AND ADDITIONAL DUTIES
(M101A1/M102)**

I. PERCENTAGE LANGUAGE SKILLS

Listening	58%
Speaking	43%
Reading	23%
Writing	17%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read to learn
CONDITIONS:	Given printed MOS training material, pictures with captions, reference manuals and procedures
STANDARDS:	100% understanding of printed content
TASK:	Listen to respond
CONDITIONS:	Given a verbal command in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARD:	100% understanding of oral utterances
TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication

III. TASK NUMBER AND TITLE

061-267-1202	Engage/Disengage an M101A1/M102 Howitzer and Blackout Lights from the Prime Mover
061-267-1203	Lock/Unlock the Drawbar/Lunette
061-267-1204	Engage/Disengage Travel Lock on the M101A1/M102
061-267-1205	Lock/Unlock the Shield Flaps (M101A1)
061-267-1206	Emplace Spades on the M101A1
061-267-1209	Emplace/Recover Firing Platform on the M102
061-267-1212	Boresight the Direct Fire Telescope on the M101A1/M102 Using a Distant Aiming Point (DAP)
061-267-1213	Boresight the Direct Fire Telescope on the M101A1/M102 Using the Testing Target
061-267-1214	Rig Howitzer for Airmobile Movement (M101A1/M102)
061-267-1505	Prepare Semifixed Ammunition for Firing
061-267-1507	Load a Prepared Round for Firing in the M101A1/M102
061-267-1516	Unload the Cannon (Semifixed)
061-267-1404	Inspect and Clean Cradle (M101A1/M102)
061-267-1406	Operate an M101A1/M102 Under Unusual Conditions
061-267-1410	Assemble/Disassemble Breechblock and Firing Lock on the M101A1
061-267-1411	Assemble/Disassemble Breech and Firing Mechanism on the M102
061-267-2225	Boresight the Panoramic Telescope on the M101A1/M102 Using a Distant Aiming Point (DAP)

III.

TASK NUMBER AND TITLE

061-267-2227	Boresight the Panoramic Telescope on the M101A1 Using the Standard Angle Method
061-267-2228	Boresight the Panoramic Telescope on the M101A1/ M102 Using the Testing Target

I. PERCENTAGE LANGUAGE SKILLS

Listening	55 %
Speaking	39 %
Reading	21 %
Writing	16 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials, pictures with captions, procedures and reference manuals
STANDARDS:	100% understanding of printed content
TASK:	Listen to learn
CONDITIONS:	Given a fire command in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral utterances
TASK:	Produce oral utterances to inform
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understandable oral communication

III. TASK NUMBER AND TITLE

061-269-1201	Couple/Uncouple Air Brake-Hoses on the M114A1
061-269-1202	Engage/Disengage an M114A1 and Blackout Lights from the Prime Mover
061-269-1204	Engage/Disengage Travel Lock on the M114A1
061-269-1205	Lock/Unlock the Shield Flaps on the M114A1
061-269-1207	Emplace/Recover Spades on the M114A1
061-269-1210	Emplace/Recover the Firing Jack and Firing Jack Float on the M114A1
061-269-1513	Load a Prepared Round for Firing in the M114A1
061-269-1214	Rig the M114A1 for Airmobile Movement
061-269-1406	Operate an M114A1 Under Unusual Conditions
061-269-1410	Assemble/Disassemble Breech and Firing Mechanism on the M114A1
061-269-2225	Boresight the Panoramic Telescope on the M114A1 Using a Distant Aiming Point (DAP)
061-269-2227	Boresight the Panoramic Telescope on the M114A1 Using the Standard Angle Method
061-269-2228	Boresight the Panoramic Telescope on the M114A1 Using the Testing Target
061-269-2232	Use the Deflection Board During Assault Fire on the M114A1

I. PERCENTAGE LANGUAGE SKILLS

Listening	59 %
Speaking	38 %
Reading	17 %
Writing	13 %

II. JOB, LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials, charts, pictures with captions and reference manuals
STANDARDS:	100% understanding of printed content
TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4) using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication

III. TASK NUMBER AND TITLE

061-270-1601	Operate an M109/M109A1 Under Normal Conditions
061-270-1208	Emplace/Recover Spades on the M109/M109A1
061-270-1204	Engage/Disengage Travel Lock on the M109/M109A1
061-270-1501	Transport Cannon Ammunition on the M109/M109A1
061-270-1212	Boresight the Direct Fire Telescope on the M109/M109A1 Using A Distant Aiming Point (DAP)
061-270-1213	Boresight the Direct Fire Telescope on the M109/M109A1 Using the Testing Target
061-270-1514	Load a Prepared Round for Firing in the M109/M109A1
061-270-1405	Clean Chamber Evacuator, Valves, and Muzzle Brake on the M109/M109A1
061-270-1410	Assemble/Disassemble Breech and Firing Mechanism on the M109/M109A1
061-270-1407	Operate an M109/M109A1 Under Unusual Conditions
061-270-2225	Boresight the Panoramic Telescope on the M109/M109A1 Using a Distant Aiming Point (DAP)
061-270-2228	Boresight the Panoramic Telescope on the M109/M109A1 Using the Testing Target

I. PERCENTAGE LANGUAGE SKILLS

Listening	45%
Speaking	35%
Reading	10%
Writing	8%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Read to learn
CONDITIONS: Given printed MOS training materials, pictures with captions, procedures and references manuals
STANDARDS: 100% understanding of printed content

TASK: Write to record
CONDITIONS: Given a requirement to record in a logbook
STANDARDS: 100% legible written content

TASK: Listen to perform
CONDITIONS: Given a fire command in a training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARD: 100% understanding of oral utterances

III. TASK NUMBER AND TITLE

061-272-1602	Operate an M107/M110 Series Motor Carriage Under Normal Conditions
061-272-1501	Transport Cannon Ammunition on the M107/M110 Series
061-272-1204	Engage/Disengage Travel Lock on the M107/M110 Series
061-272-1211	Operate the Oil Pump Motors on the M107/M110 Series
061-272-1212	Boresight the Direct Fire Telescope on the M107/M110 Series Using a Distant Aiming Point (DAP)
061-272-1213	Boresight the Direct Fire Telescope on the M107/M110 Series Using the Testing Target
061-272-1515	Load a Prepared Round for Firing in the M107/M110 Series
061-272-1511	Measure the Depth of Ram on the M107
061-272-1408	Operate an M107/M110 Series Under Unusual Conditions
061-272-1410	Assemble/Disassemble Breech and Firing Mechanism on the M107/M110 Series
061-272-2225	Boresight the Panoramic Telescope on the M107/M110 Series Using a Distant Aiming Point (DAP)
061-272-2227	Boresight the Panoramic Telescope on the M107/M110/M110A1 Using the Standard Angle Method
061-272-2228	Boresight the Panoramic Telescope on the M107/M110 Series Using the Testing Target

I. PERCENTAGE LANGUAGE SKILLS

Listening	0%
Speaking	0%
Reading	0%
Writing	0%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials, pictures with captions, procedures and reference manuals
STANDARDS:	100% understanding of printed content
TASK:	Listen to respond
CONDITIONS:	Given a verbal fire command in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral utterances

III. TASK NUMBER AND TITLE

061-273-1202	(RC) Engage/Disengage an M115 Howitzer and Blackout Lights from the Prime Mover
061-273-1204	(RC) Engage/Disengage Cradle Lock on the M115
061-273-1212	(RC) Boresight the Direct Fire Telescope on the M115 Using a Distant Aiming Point (DAP)
061-273-1213	(RC) Boresight the Direct Fire Telescope on the M115 Using the Testing Target
061-273-1515	(RC) Load a Prepared Round for Firing in the M115
061-273-1318	(RC) Set/Lay the M115 for Quadrant
061-273-1319	(RC) Measure the Quadrant on the M115
061-273-1406	(RC) Operate an M115 Under Unusual Conditions
061-273-1410	(RC) Assemble/Disassemble Breech and Firing Mechanism on the M115
061-273-2225	(RC) Boresight the Panoramic Telescope on the M115 Using a Distant Aiming Point (DAP)
061-273-2227	(RC) Boresight the Panoramic Telescope on the M115 Using the Standard Angle Method
061-273-2228	(RC) Boresight the Panoramic Telescope on the M115 Using the Testing Target

I. PERCENTAGE LANGUAGE SKILLS

Listening	0%
Speaking	0%
Reading	0%
Writing	0%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read to learn
CONDITIONS:	Given printed MOS training material in the form of instructions, pictures with explanations and simple messages using prowords
STANDARDS:	100% understanding of printed content
TASK:	Produce oral utterance over radiotelephone
CONDITIONS:	Given the requirement to orally communicate using the phonetic alphabet in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Listen to perform
CONDITIONS:	Given oral instructions and a brief oral message including prowords in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral content
TASK:	Write to record
CONDITIONS:	Given a requirement to complete communication forms and logs
STANDARDS:	100% legibility of written communication

III. TASK NUMBER AND TITLE

113-587-1004	Install Radio Set AN/VRC-46 (AN/VRC-12 Series)
113-587-2003	Operate Radio Set AN/VRC-46 (AN/VRC-12 Series)
113-587-3004	Perform Operator Maintenance on radio Sets AN/VRC-46 and AN/VRC-47
113-609-2008	Prepare for Operation and Operate Speech Security Equipment TSEC/KY-38
113-571-1003	Establish, Enter or Leave a Radio Net
113-571-1005	Send or Receive a Radiotelephone Message
061-306-6001	Perform Low-Level Anti-Jamming Procedures
113-573-4002	Use KAL-61B KTC 1400 Numerical Code to Authenticate Transmissions and Encrypt/Decrypt Numbers and Grid Zone Letters
113-573-4001	Encode and Decode Messages Using KTC-600 Tactical Operations Code
113-573-8001	Use an Automated CEOI
113-609-9001	Destroy Communications Security Equipment and Materials

I. PERCENTAGE LANGUAGE SKILLS

Listening	53 %
Speaking	34 %
Reading	22 %
Writing	17 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Write to record
CONDITIONS:	Given logbooks, DA Forms 2404 and 2408-1, and a monthly log
STANDARDS:	100% legible written content
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials, charts, pictures with captions, signs and reference manuals
STANDARDS:	100% understanding of printed content
TASK:	Read to perform
CONDITIONS:	Given printed MOS training materials, procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication

III. TASK NUMBER AND TITLE

551-721-1002	Prepare DA Form 2404 (Equipment Inspection and Maintenance Worksheet)
551-721-1003	Prepare DA Form 2408-1 (Equipment Daily or Monthly Log) Daily
551-721-1007	Perform Before-Operation Maintenance
551-721-1008	Perform During-Operation Maintenance
551-721-1009	Perform After-Operation Maintenance
551-721-1013	Operate Vehicle in Snow and Ice
551-721-1014	Operate Vehicle in Sand
551-721-1015	Drive Vehicle Off Road
551-721-1016	Drive Vehicle in Motor March or Convoy
551-721-1018	Drive Vehicle Under Blackout Conditions
551-721-1019	Drive Vehicle Through Contaminated Area
551-721-1834	Operate the Winch on a Wheeled Vehicle
551-721-1877	Operate a Winch on an M548 Cargo Carrier

NUCLEAR SECURITY

I. PERCENTAGE LANGUAGE SKILLS

Listening	0 %
Speaking	0 %
Reading	0 %
Writing	0 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read for information
CONDITIONS:	Given printed MOS training materials, charts, procedures and reference manuals
STANDARDS:	100% understanding of printed content
TASK:	Listen to respond
CONDITIONS:	Given a verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral utterances
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4) and with standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses

III. TASK NUMBER AND TITLE

191-376-3006	Control Entry/Exit to a Field Storage Location (FSL)
191-376-3005	Control Access to a Weapon Not Secured Within a Field Storage Location (FSL)
191-376-3001	Call Appropriate Security Reaction Forces in Response to an Emergency Situation at a Field Storage Location (FSL) and Allow them Entry to the FSL
093-402-1106	Fight Fires Involving Nuclear Weapons

I. PERCENTAGE LANGUAGE SKILLS

Listening	0 %
Speaking	0 %
Reading	0 %
Writing	0 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read to learn
CONDITIONS:	Given printed MOS printed training materials, pictures and references
STANDARDS:	100% understanding of printed content
TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication

III. TASK NUMBER AND TITLE

051-193-1008	Make Detonating Cord Connections
051-193-1009	Construct a Detonating Cord Firing System
051-193-1002	Construct a Nonelectric (Initiation) Detonating Assembly
051-193-1012	Detonate Explosives

I. PERCENTAGE LANGUAGE SKILLS

Listening	0 %
Speaking	0 %
Reading	0 %
Writing	0 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read to perform
CONDITIONS:	Given printed MOS training materials, procedures, references and local directives
STANDARDS:	100% understanding of printed materials

TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials, pictures with captions, procedures and references
STANDARDS:	100% understanding of printed content

III. TASK NUMBER AND TITLE

061-272-1804	Perform a Receipt Inspection on the M422 Projectile in the Stockpile Configuration
061-272-1805	Perform Emergency Destruction Procedures on the Nuclear Loaded M422 Projectile
061-272-1806	Unpackage the Nuclear Loaded M422 Projectile
061-272-1807	Set the Fuze Timers
061-272-1808	Install the Ignition System and Load the M422 Projectile into the Howitzer
061-272-1809	Perform Changed Firing Procedures on the M422 Projectile
061-272-1810	Extract the M422 Projectile from the Howitzer Using the H4172 Extractor
061-272-1811	Extract the M422 Projectile from the Howitzer Using the H4277 Extractor
061-272-1812	Remove the Ignition System from the M422 Projectile
061-272-1813	Repackage the Nuclear Loaded M422 Projectile
061-272-1814	Perform Prefire Operations on the M424 Projectile
061-272-1815	Perform Changed Firing or Cancelled Firing Procedures on the M424 Projectile

I. PERCENTAGE LANGUAGE SKILLS

Listening	5 %
Speaking	5 %
Reading	0 %
Writing	0 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Read to learn
CONDITIONS: Given printed MOS training materials,
pictures with captions, procedures and
reference manuals
STANDARDS: 100% understanding of printed materials

TASK: Read to perform
CONDITIONS: Given printed MOS training materials,
procedures, safety rules, references,
and local directives
STANDARDS: 100% understanding of printed materials

III. TASK NUMBER AND TITLE

061-270-1804	Perform a Receipt Inspection on the M454 Projectile
061-270-1805	Perform Emergency Destruction Procedures on the M454 Projectile
061-270-1806	Unpackage the M454 Projectile
061-270-1816	Install the Fuze on the M454 Projectile
061-270-1817	Set the Fuze Option Switch and Sequential Timer on the M454 Projectile
061-270-1818	Load the M454 Projectile Into the Howitzer
061-270-1809	Perform Changed Firing Procedures on the M454 Projectile
061-269-1819	Extract the M454 Projectile From the M114 or M114A1 Towed Howitzer
061-270-1820	Extract the M454 Projectile From the M109 Self-Propelled Howitzer
061-270-1821	Safe the Fuze and Sequential Timer
061-270-1822	Remove the Fuze and Repackage the Projectile

ARTILLERY MECHANIC (ALL)

I. PERCENTAGE LANGUAGE SKILLS

Listening	60 %
Speaking	13 %
Reading	0 %
Writing	0 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Read for information
CONDITIONS: Given printed MOS training materials, catalogs and references manuals
STANDARDS: 100% understanding of printed content

TASK: Read to perform
CONDITIONS: Given a lubrication order
STANDARDS: 100% understanding of printed material

TASK: Listen to learn
CONDITIONS: Given oral instructions in any training situation (Appendix 4) using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

III. TASK NUMBER AND TITLE

061-266-1450	Maintain Assigned Field Artillery Mechanic Tool Kit
061-266-6005	Determine the National Stock Number (NSN) for a Repair Part
061-266-1451	Perform Preventive Maintenance Checks and Services on a Howitzer or Gun
061-266-1452	Purge and Charge Fire Control Equipment

I. PERCENTAGE LANGUAGE SKILLS

Listening	67%
Speaking	42 %
Reading	0 %
Writing	0 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials, pictures with captions, procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of a lubrication order (LO).
STANDARDS:	100% understanding of printed content
TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication

III. TASK NUMBER AND TITLE

061-267-1453	Repair Wheel Hub and Bearing Group Assemblies on the M101A1/M102
061-267-1454	Repair Breechblock Operating Group on the M101A1 Howitzer
061-267-1455	Adjust the Brakes on the M101A1/M102
061-267-1456	Drain/Fill Recoil Oil on the M101A1 or M102 Howitzer
061-267-1457	Repair Breechblock Operating Group on the M102 Howitzer
061-267-1458	Check Timing of Variable Recoil System on the M102 Howitzer

I. PERCENTAGE LANGUAGE SKILLS

Listening	80 %
Speaking	50 %
Reading	0 %
Writing	0 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Read for information
CONDITIONS: Given printed MOS training materials, pictures with captions procedures and reference manuals
STANDARDS: 100% understanding of printed content

TASK: Listen to learn
CONDITIONS: Given oral instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

III. TASK NUMBER AND TITLE

061-269-1459	Establish Recuperator Fluid Reserve on the M114A1 Howitzer
061-269-1460	Maintain the Replenisher on the M114A1 Howitzer
061-269-1461	Repair the Cannon Breech Mechanism on the M114A1 Howitzer
061-269-1453	Repair Wheel Hub and Bearing Group Assemblies on the M114A1
061-269-1455	Adjust the Brakes on the M114A1

I. PERCENTAGE LANGUAGE SKILLS

Listening	23 %
Speaking	14 %
Reading	0 %
Writing	0 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read for information
CONDITIONS:	Given printed MOS training materials, pictures with captions, procedures and reference manuals
STANDARDS:	100% understanding of printed content
TASK:	Listen to perform
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses

III. TASK NUMBER AND TITLE

061-270-1462	Adjust the Rammer Control Assembly on the M109/M109A1 Howitzer
061-270-1463	Maintain the Power Pack Hydraulic System on the M109/M109A1 Howitzer
061-270-1464	Repair Components of the Hydraulic Power Pack in the M109/M109A1 Howitzer
061-270-1465	Bleed and Charge the Elevating/Equilibrating Hydraulic Systems of the M109/M109A1 Howitzer
061-270-1466	Repair Components of the M109/M109A1 Howitzer Cab Electrical System
061-270-1467	Replace Solenoid or Combined Solenoid and Hydraulic Motor Bypass Valve in the M109/M109A1 Howitzer
061-270-1468	Replace Solenoid or Combined Solenoid and Rammer Control Valve in the M109/M109A1 Howitzer
061-270-1469	Replace the Manual Elevation Accumulator Assembly in the M109/M109A1 Howitzer
061-270-1470	Repair Gunner's Control or Cab Power Pack Tubes and Fitting to Gunner's Control on the M109/M109A1 Howitzer
061-270-1471	Check the Main Accumulator Nitrogen Precharged Pressure in the M109/M109A1 Howitzer
061-270-1472	Replace Solenoid or Combined Solenoid and Elevation Selector Valve in the M109/M109A1
061-270-1473	Repair Hydraulic tubes and Fittings to Elevation and Equilibrator Systems on the M109/M109A1 Howitzer

I. PERCENTAGE LANGUAGE SKILLS

Listening	0 %
Speaking	0 %
Reading	0 %
Writing	0 %

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Read for information
CONDITIONS:	Given printed MOS training materials, pictures with captions, procedures and reference manuals
STANDARDS:	100% understanding of printed content
TASK:	Listen to perform
CONDITIONS:	Given oral instructions in any training situation ! (Appendix 4), using standard and non-standard lexical and structural items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses

III. TASK NUMBER AND TITLE

061-272-1474	Repair Loader and Rammer Pivot Arm on the M107/M110 Series
061-272-1475	Replace Components of the Loader and Rammer on the M107/M110 Series
061-272-1476	Charge the Accumulator Gas Bottle on the M107/M110 Series
061-272-1477	Replace Rammer Traversing Cylinder and Related Parts on the M107/M110 Series
061-272-1478	Replace Gun Mount Rail Wipers on the M107/M110 Series
061-272-1479	Maintain Equilibrators on the M107/M110 Series
061-272-1480	Replace the Hydraulic Pressure Line Filter Element on the M107/M110 Series
061-272-1473	Repair the Cab/Turret Wiring Harness of the M107/M110 Series
061-272-1461	Repair the Cannon Breech Mechanism on the M107/M110 Series Gun/Howitzer

JOB LANGUAGE PERFORMANCE
REQUIREMENTS (JLPR s)
(Entire MOS)

INTRODUCTION

The product of the entire data gathering and organization is the JLPR s. These are relevant to all common and duty tasks in 13B.

There are two tasks per generic skill and listed below each task are the types of receptive or productive behavior involved.

TASK: Read MOS training in the form of printed prose or graphic representations in order to learn processes, concepts, vocabulary, definitions and identifications, to calculate problems, intercept codes and complete forms.

CONDITIONS: Given technical, non-technical, lexical and structural features, (Appendix 4) in simple to complex printed form in any training situation. (Appendix 5 & 6)

STANDARDS: 100% understanding of printed content.

*The following are specific conditions found in this language task:

*Captions with illustrations.

Lists	Extracts
Procedures	Columns
Information	Indices
Definitions	Charts
Outlines	Methods
Signs	Technical Vocabulary
Markers	Standard Operating Procedures
References	Cartoons
Rules	Problems
Maps	Manuals
Flags	Graphic Training Aids
Military Documents	
I.D. Papers	
Regulations	

TASK: Identify, understand, and interpret written utterances pertinent to MOS training in technical or non-technical language.

CONDITIONS: Given technical, non-technical, lexical and structural features (Appendices 5 & 6 in simple to complex written form in any training situation. (Appendix 4)

STANDARDS: 100% understanding of written content.

*The following are specific conditions found in this language task:

*Lists

- Information
- Descriptions
- Radiation readings off dosimeter
- Coordinate scales
- Callsigns-suffixes
- Three-letter codes
- Examples
- Calculations
- Markings
- Radio communications
- Range cards
- Notes
- Messages

WRITING

- TASK:** Upon instruction, write in conventional orthography, letters, numbers, words or sentences appropriate to the training situation.
- CONDITIONS:** Given standardized forms, paper or answer sheets and the instructions to list, answer, describe or recall.
- STANDARDS:** 100% syntactical and lexical correctness and legibility of writing which is also appropriate in style and usage to training situation. (Appendix 4)

*The following are specific conditions found in this language task:

*Ratings
Signatures
Range cards
Data symbols
Answers
Descriptions
Notes
Reports

TASK: Write in conventional orthography letters, or specialized code, numbers, words or sentences in order to transmit or record information.

CONDITIONS: Given standardized forms or paper and oral communication.

STANDARDS: 100% syntactical and lexical correctness of writing which can be read by another speaker of English.

*The following are specific conditions found in this language task:

*Technical forms
Codes
Grid coordinates
Decoded messages
Encoded messages
Logbooks
Plottings
Figures
Reports
Tags
Range cards

LISTENING

TASK: Understand oral language intended to inform or instruct.

CONDITIONS: Given explanations, procedures, rules, instructions or definitions in simple to complex lexicon and syntax, (Appendix 4), formal or informal registers, casual or colloquial speech, military jargon, slang or dialectal speech in any training situation. (Appendices 5 & 6)

STANDARDS: 100% understanding and assimilation of presented oral language task.

* The following are specific conditions found in this language task:

* Warnings

Described situations

Directions

Lectures

Scenarios

Commands, Orders

Sound tracks (films, tapes)

Standard/Non-standard English

Instructions

SQT questions

TASK: Understand spontaneous oral language or language via a technical medium - such as a radio telephone - intended to inform and elicit response.

CONDITIONS: Given scenarios, questions, commands or requests in simple to complex lexicon and syntax, formal or informal registers, casual or colloquial speech, military jargon, slang or dialectal speech in any training situation. (Appendices 4, 5, & 6)

STANDARDS: 100% understanding and assimilation of oral language in order to apply and respond.

* The following are specific conditions found in this language task:

* Shouting

Radio communications

Messages

Coded messages

Clear text

Spellings

Conversation

Requests

SPEAKING

TASK: Formulate and produce appropriate oral responses spontaneously or upon request.

CONDITIONS: Given any verbal stimulus in the form of questions, scenarios, instructions, or cues in any training situation.
(Appendices 5 & 6)

STANDARDS: 100% understandable oral response using correct lexicon, syntax, registers and styles for the training situation.

* The following are specific conditions found in the language task:

- * Explanations
- Statements
- Repetitions
- Counting
- Corrections
- Assignments
- Notifications
- Oral reports
- Answers
- Clarifications
- Information

TASK: Produce oral utterances to interact and communicate spontaneously or via a technical medium such as radio telephone.

CONDITIONS: Given a communicative situation (Appendices 4, 5, & 6, 19D (Soldier's Manual), in any training situation.

STANDARDS: 100% understandable communication using correct lexicon, syntax, registers, and styles for the communication act.

* The following are specific conditions found in this language task:

- * Requesting information
- Requesting permission
- Transmitting messages
- Call signs
- Vocal signals
- Shout warnings
- Radio communications
- Messages
- Phonetic messages
- Target locations
- Directions (N, S, E, W)
- Directions, general
- Requests for fire
- Report on the results of fire
- Challenges/Passwords
- Training sessions
- Interaction

APPENDICES

1. Task Prioritization Checklist
2. Task Inventory Compiled Data Forms
3. Percentages Language Skills
4. Observation Form
5. Structural/Lexical list
6. Vocabulary (In-house)
7. Vocabulary (Machine-generated)
8. 60 ECL Structures

APPENDIX 1

TASK PRIORITIZATION CHECKLIST

This Checklist was approved for use by TRADOC in 1980. Through the course of analysis, it was found that not all variables were immediately useful. Those variables not used in this document may be used later in the course design. Variables not used were:

Danger to person/equipment

Is it taught?

Is it tested?

Is it difficult?

Is it important?

They were not useful because they did not address difficulties as involved with a native v/s a non-native - the responses to these variables address the entire population, native speakers and non-natives.

MENT MUST
LY WORKING IN)

HICH YOU WERE TRAINED;

*RATING: 1-low

2= med
3= high

YES

NO

IS TASK
TAUGHT?

LISTENING*

SPEAKING*

READING*

WRITING*

IMPORTANCE
OF:

LECTURE

SELF-PACED

DEMONSTRATION

HANDS-ON

HOW
TAUGHT

YES

NO

IS TASK
TESTED?

WRITTEN

ORAL

PERFORMANCE

TESTED?

PERSON

PERFORMANCE
RESULTS IN
DANGER TO
EQUIPMENT

APPENDIX 2

TASK INVENTORY COMPILED DATA FORM

This form was used to record data from
the Task Prioritization Checklist.

PCS: 13 B NUMBER OF RESPONSES: 51

DATA OBTAINED FROM: FT. SILL, OK. TRAINING SPECIALIST: KERN MENDIOLA
PT. LEWIS, WA. WACKUP

UNIT	CRITICAL?	ACTION OF TEACHING	METHOD OF TESTING	ELC	ATT/UNIT
	difficult?	self-paced	written	writing	
	importance	hands-on	oral	reading	
	tested?	demonstration	performance	speaking	
		lecture		listening	
2	5	✓	✓	✓	
2	5	✓	✓	✓	
2	5	✓	✓	✓	
2	5	✓	✓	✓	
0	5	✓	✓	✓	
2	5	✓	✓	✓	
2	5	✓	✓	✓	71

PCS: 13 B NUMBER OF RESPONSES: 1
 DATA OBTAINED FROM: FT. SILL TRAINING SPECIALIST: KERN/MENDIOLA

Task #	DATA	ELC	METHOD OF TESTING	ATT/UNIT
061-266	soldiers P.O.I. MILPERCEN Regs:	writing	written	
1101		reading	oral	
1103		speaking	performance	
1104		listening	self-paced	
1071			hands-on	
1702			demonstration	
1215			lecture	
1716				

NUMBER OF RESPONSES:

DATA OBTAINED FROM:

TRAINING SPECIALIST

[illegible]

JCS: <u>13B</u>		NUMBER OF RESPONSES: <u>1</u>					
DATA OBTAINED FROM: <u>?</u>		TRAINING SPECIALIST: <u>?</u>					
4	UNIT	difficult?	tested?				
	CRITICAL	danger to person or equipment	importance				
	METHOD OF TEACHING	self-paced	hands-on demonstration				
	METHOD OF TESTING	written	oral				
	ELS	writing	reading				
	ELS	speaking	listening				
	AT/UNIT	COMPILED DATA					
	JCS: <u>13B</u>		NUMBER OF RESPONSES: <u>1</u>				
	DATA OBTAINED FROM: <u>Ft. Sinc, Ok.</u>		TRAINING SPECIALIST: <u>Kern/Mey</u>				
	Task #	061-244	222	223	224	229	230
GUIDE DATA	soldiers P.O.I. MILLERSON Regs:						
ELS	writing						
ELS	reading						
ELS	speaking						
ELS	listening						
OF TESTING	written						
OF TESTING	oral						
OF TESTING	performance						
OF TESTING	self-paced						
OF TESTING	hands-on						
OF TESTING	demonstration						
OF TESTING	lecture						
OF TESTING	danger to person or equipment						
OF TESTING	importance						
OF TESTING	difficult?						
OF TESTING	tested?						
OF TESTING	0						

		HCS: <u>13 B</u>		NUMBER OF RESPONSES: <u>1</u>		
		DATA OBTAINED FROM: <u>?</u>		TRAINING SPECIALIST: <u>?</u>		
Task #	UNIT	CRITICAL	METHOD OF TEACHING	METHOD OF TESTING	ELLS	ATT/UNIT
081-831	1	5	5	5	5	
1009	2	5	5	5	5	
1011	2	5	5	5	5	
1012	2	5	5	5	5	
1013	2	5	5	5	5	
1014	2	5	5	5	5	
1015	2	5	5	5	5	

		HCS: <u>13 B</u>		NUMBER OF RESPONSES: <u>1</u>		
		DATA OBTAINED FROM: <u>FT. BLISS, Ok</u>		TRAINING SPECIALIST: <u>Kern/Hen</u>		
Task #	UNIT	CRITICAL	METHOD OF TEACHING	METHOD OF TESTING	ELLS	CLIP DATA
081-831	1	5	5	5	5	
1009	2	5	5	5	5	
1011	2	5	5	5	5	
1012	2	5	5	5	5	
1013	2	5	5	5	5	
1014	2	5	5	5	5	
1015	2	5	5	5	5	

MOS: 13BNUMBER OF RESPONSES: 1DATA OBTAINED FROM: ?TRAINING SPECIALIST: ?

UNIT	CRITICAL TO PERSON OR EQUIPMENT IMPORTANCE	TEACHING METHOD	TEACHING TEST	COMPILED DATA
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
38	38	38	38	38
39	39	39	39	39
40	40	40	40	40
41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
44	44	44	44	44
45	45	45	45	45
46	46	46	46	46
47	47	47	47	47
48	48	48	48	48
49	49	49	49	49
50	50	50	50	50
51	51	51	51	51
52	52	52	52	52
53	53	53	53	53
54	54	54	54	54
55	55	55	55	55
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58	58	58	58	58
59	59	59	59	59
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62	62	62	62	62
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67	67	67	67	67
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69	69	69	69	69
70	70	70	70	70
71	71	71	71	71
72	72	72	72	72
73	73	73	73	73
74	74	74	74	74
75	75	75	75	75
76	76	76	76	76
77	77	77	77	77
78	78	78	78	78
79	79	79	79	79
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81	81	81	81	81
82	82	82	82	82
83	83	83	83	83
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86	86	86	86	86
87	87	87	87	87
88	88	88	88	88
89	89	89	89	89
90	90	90	90	90
91	91	91	91	91
92	92	92	92	92
93	93	93	93	93
94	94	94	94	94
95	95	95	95	95
96	96	96	96	96
97	97	97	97	97
98	98	98	98	98
99	99	99	99	99
100	100	100	100	100

MOS: 13BNUMBER OF RESPONSES: 1DATA OBTAINED FROM: Ft. Sigs OkTRAINING SPECIALIST: Kern/Mendy

UNIT	CRITICAL TO PERSON OR EQUIPMENT IMPORTANCE	TEACHING METHOD	TEACHING TEST	COMPILED DATA
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
38	38	38	38	38
39	39	39	39	39
40	40	40	40	40
41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
44	44	44	44	44
45	45	45	45	45
46	46	46	46	46
47	47	47	47	47
48	48	48	48	48
49	49	49	49	49
50	50	50	50	50
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52	52	52	52	52
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89	89	89	89	89
90	90	90	90	90
91	91	91	91	91
92	92	92	92	92
93	93	93	93	93
94	94	94	94	94
95	95	95	95	95
96	96	96	96	96
97	97	97	97	97
98	98	98	98	98
99	99	99	99	99
100	100	100	100	100

Task #

031-503

1001

1002

1003

1004

1005

1006

1007

TRAINING SPECIALIST ?

[illegible]

UNIT		CRITICAL IMPORTANCE	METHODS OF TEACHING	EVALUATION METHODS	UNIT DATA	DATA OBTAINED FROM: <u>7</u> TRAINING SPECIALIST <u>?</u>	
tested?	difficult?					compiled data	ALT/UNIT
2	1	1.5	self-paced hands-on demonstration lecture	written oral performance	soldiers P.O.I. MILITARY Regn.	AP2 = 2.5	
2	1	1.5	self-paced hands-on demonstration lecture	written oral performance	soldiers P.O.I. MILITARY Regn.	AP2 = 2.5	

104

NOS: 13 B

NUMBER OF RESPONSES: 1

DATA OBTAINED FROM: Ft. Sill, Ok

TRAINING SPECIALIST: Kern/Pre

Task #

071-281-0801

071-281-0802

3047

IN 22 RESPONSES:

DATA OBTAINED FROM:

TRAINING SPECIALIST

[illegible]

POS: 13B

NUMBER OF RESPONSES:

DATA OBTAINED FROM File DK

TRAINING SPECIALIST: Kerr/Hen.

[illegible]

PGS: 13 B

NUMBER OF RESPONSES: 4

DATA OBTAINED FROM: ?

TRAINING SPECIALIST ?

UNIT	CRITICAL	TEACHING				UNIT	CRITICAL	TEACHING				UNIT	CRITICAL	TEACHING				UNIT	CRITICAL	TEACHING				UNIT	CRITICAL	TEACHING			
		written	oral	performance	self-paced			written	oral	performance	self-paced			written	oral	performance	self-paced			written	oral	performance	self-paced			written	oral	performance	self-paced
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1
13	1	5	1	1	1	1</																							

13B

NUMBER OF RESPONSES: 1

DATA OBTAINED FROM: ?

TRAINING SPECIALIST: ?

UNIT	METHOD OF TEACHING	CRITICAL	IMPORTANCE	DIFFICULT?	TESTED?	COMPILED DATA	ATT/UNIT						
								WRITING	READING	SPEAKING	LISTENING	WRITTEN	ORAL
14													
MOS: 13B		NUMBER OF RESPONSES: 1											
DATA OBTAINED FROM: Ft. Sill, Okla.		TRAINING SPECIALIST: Kern/Mc											
1601	1	1	2	0	5								
1208	1	1	2	0	5								
1204	1	1	2	0	5								
1501	0	-	-	-	-								
1212	0	-	-	-	-								
1713	1	1	2	0	5								
1514	1	1	2	0	5								
1405	1	1	2	0	5								
1410	0	-	-	-	-								
1407	0	-	-	-	-								
2225	0	-	-	-	-								
2228	0	-	-	-	-								
1602	1	1	0	0	5								
1501	0	-	-	-	-								
1204	1	1	0	0	5								
1711	1	1	0	0	5								
1212	0	-	-	-	-								
1213	0	-	-	-	-								
1515	1	1	0	0	5								
1511	0	-	-	-	-								
1408	0	-	-	-	-								
1410	0	-	-	-	-								
2225	0	-	-	-	-								
2227	0	-	-	-	-								

DATA OBTAINED FROM: ?

TRAINING SPECIALIST: ?

Task #	MOS	DATA	UNIT	IMPORTANCE	TEACHING METHOD	PERFORMANCE	WRITTEN	ORAL	READING	SPEAKING	LISTENING	COMPLEX DATA	AIF/UNOF	J:
Task # 061-273	138	DATA OBTAINED FROM: Ft. Sinc, Ok.	15	1	1	1	1	1	1	1	1	1		
1202	138		15	1	1	1	1	1	1	1	1	1		
1204	138		15	1	1	1	1	1	1	1	1	1		
1212	138		15	1	1	1	1	1	1	1	1	1		
1213	138		15	1	1	1	1	1	1	1	1	1		
1515	138		15	1	1	1	1	1	1	1	1	1		
1318	138		15	1	1	1	1	1	1	1	1	1		
1406	138		15	1	1	1	1	1	1	1	1	1		
1410	138		15	1	1	1	1	1	1	1	1	1		
2225	138		15	1	1	1	1	1	1	1	1	1		
2227	138		15	1	1	1	1	1	1	1	1	1		
2228	138		15	1	1	1	1	1	1	1	1	1		
113-583-1004	138		15	1	1	1	1	1	1	1	1	1		
2003	138		15	1	1	1	1	1	1	1	1	1		
3004	138		15	1	1	1	1	1	1	1	1	1		
113-609-2004	138		15	1	1	1	1	1	1	1	1	1		
113-671-1003	138		15	1	1	1	1	1	1	1	1	1		
2005	138		15	1	1	1	1	1	1	1	1	1		
061-306-6001	138		15	1	1	1	1	1	1	1	1	1		
113-573-4001	138		15	1	1	1	1	1	1	1	1	1		
4001	138		15	1	1	1	1	1	1	1	1	1		
8001	138		15	1	1	1	1	1	1	1	1	1		
113-609-5001	138		15	1	1	1	1	1	1	1	1	1		

DATA OBTAINED FROM: 1

TRAINING SPECIALIST 7

UNIT #	CRITICAL TEACHING OF	OF TESTING	EIS	ALT/UNIT	
	danger to person or equipment importance	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	COMPILED DATA

MOS: 13

NUMBER OF RESPONSES

DATA OBTAINED FROM: FT. Siler, OK

TRAINING SPECIALIST *Kim/Keno*

DATE	TEACHING	IMPORTANCE	TEACHING	OR	ELLS	DATA
1942-10-19	1459	0	self-paced	written	writing	soldiers
1942-10-20	1460	0	hands-on	oral	reading	P.O.I.
1942-10-21	1461	0	demonstration	performance	speaking	MILPERCEN
1942-10-22	1462	0	lecture		listening	Regs:
1942-10-23	1463	0				
1942-10-24	1464	0				
1942-10-25	1465	0				
1942-10-26	1466	0				
1942-10-27	1467	0				
1942-10-28	1468	0				
1942-10-29	1469	0				
1942-10-30	1470	0				
1942-10-31	1471	0				
1942-11-01	1472	0				
1942-11-02	1473	0				
1942-11-03	1474	0				
1942-11-04	1475	0				

DATA OBTAINED FROM: ?

TRAINING SPECIALIST ?

Task #	DATA	UNL.	IMPORTANCE	PERSON OR EQUIPMENT	TEACHING: lecture	hands-on demonstration	self-paced	OF TESTING: written oral performance	FLS	COMPILED DATA
061-266										
1101		2	5	5						$AT^2 = 8.5$
1103		2	5	5						$AT^2 = 6.2$
1104		2	5	5						$AT^2 = 6.2$
1701		2	5	5						$AT^2 = 6.2$
1702		2	5	5						$AT^2 = 6.2$
1705		2	5	5						$AT^2 = 8.2$
1216		2	5	5						$AT^2 = 8.2$
1217		2	5	5						$AT^2 = 8.2$
1218		2	5	5						$AT^2 = 7.2$
1219		2	5	5						$AT^2 = 7.5$
1517		0	0	5						$AT^2 = 5.0$
1220		2	5	5						$AT^2 = 9.5$
1401		2	0	5						$AT^2 = 5.0$
1402		2	0	5						$AT^2 = 5.0$
551-721-1870		0	0	5						$AT^2 = 5.0$
561-256-1501		0	0	5						$AT^2 = 6.0$
1504		0	2	0	5					$AT^2 = 6.0$
1506		0	0	0	5					$AT^2 = 6.0$
2221		2	2	5	5					$AT^2 = 10.5$
2222		2	2	5	5					$AT^2 = 5.7$
2223		2	2	5	5					$AT^2 = 6.0$
2224		2	2	5	5					$AT^2 = 6.0$
2229		2	2	5	5					$AT^2 = 7.2$
2230		2	2	5	5					$AT^2 = 5.0$
2231		2	2	5	5					$AT^2 = 5.0$

DATA OBTAINED FROM: ?

NUMBER OF RESPONSES: ?

TRAINING SPECIALIST: ?

TRAINING SPECIALIST

UNIT	CRITICAL IMPORTANCE	TEACHING METHOD	TYPE OF TEST	EFL	DATA	UNIT		CRITICAL IMPORTANCE	TEACHING METHOD	TYPE OF TEST	EFL	ALL/UNIT
						tested?	difficult?					
1001	5	self-paced	written	-	1001	2	0	5	self-paced	written	-	$A_T^2 = 3.7$
1002	5	self-paced	written	-	1002	2	0	5	self-paced	written	-	$A_T^2 = 3.7$
1003	5	self-paced	written	-	1003	2	0	5	self-paced	written	-	$A_T^2 = 3.7$
1004	5	self-paced	written	-	1004	2	2	5	self-paced	written	-	$A_T^2 = 4.7$
1005	5	self-paced	written	-	1005	2	0	5	self-paced	written	-	$A_T^2 = 3.7$
1006	5	self-paced	written	-	1006	2	0	5	self-paced	written	-	$A_T^2 = 3.7$
1007	5	self-paced	written	-	1007	2	0	5	self-paced	written	-	$A_T^2 = 3.7$
1008	5	self-paced	written	-	1008	2	2	5	self-paced	written	-	$A_T^2 = 7.2$
1009	5	self-paced	written	-	1009	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1010	5	self-paced	written	-	1010	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1011	5	self-paced	written	-	1011	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1012	5	self-paced	written	-	1012	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1013	5	self-paced	written	-	1013	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1014	5	self-paced	written	-	1014	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1015	5	self-paced	written	-	1015	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1016	5	self-paced	written	-	1016	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1017	5	self-paced	written	-	1017	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1018	5	self-paced	written	-	1018	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1019	5	self-paced	written	-	1019	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1020	5	self-paced	written	-	1020	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1021	5	self-paced	written	-	1021	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1022	5	self-paced	written	-	1022	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1023	5	self-paced	written	-	1023	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1024	5	self-paced	written	-	1024	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1025	5	self-paced	written	-	1025	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1026	5	self-paced	written	-	1026	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1027	5	self-paced	written	-	1027	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1028	5	self-paced	written	-	1028	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1029	5	self-paced	written	-	1029	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1030	5	self-paced	written	-	1030	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1031	5	self-paced	written	-	1031	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1032	5	self-paced	written	-	1032	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1033	5	self-paced	written	-	1033	2	2	5	self-paced	written	-	$A_T^2 = 8.2$
1034	5	self-paced	written	-	1034	2	2	5	self-paced	written	-	$A_T^2 = 8.2$

AD-A121 098

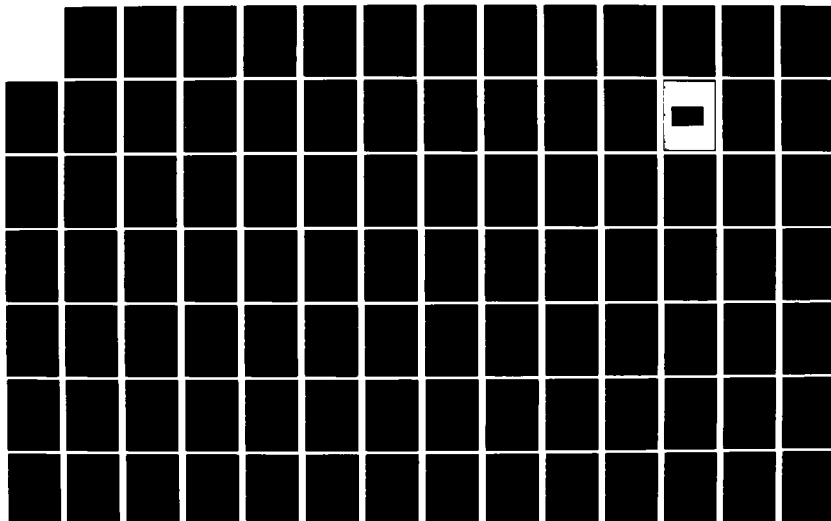
JOB LANGUAGE PERFORMANCE REQUIREMENTS FOR MOS 13B
CANNON CREWMAN VOLUME I & II(U) DEFENSE LANGUAGE INST
LACKLAND AFB TX ENGLISH LANGUAGE CENTER OCT 82

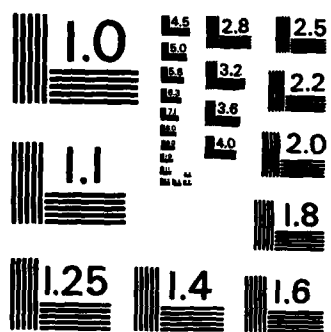
2/4

UNCLASSIFIED

F/G 5/9

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS - 1963 - A

TRAINING SPECIALIST

[illegible]

III. TASK NUMBER AND TITLE

061-270-1474 Repair the Cab/Turret Wiring Harness of the M109/
M109A1 Howitzer

061-270-1461 Repair the Cannon Breech Mechanism on the M109/
M109A1 Howitzer

APPENDIX 3

PERCENTAGE LANGUAGE SKILLS

This appendix contains computations made to arrive at the Percentages of listening, speaking, reading and writing involved in each cluster.

*some clusters have two sets of computations; this is because some Task Prioritization Forms were received after original computations and had to be added on.

**PERCENTAGE LANGUAGE SKILLS
NOS**

# of tasks in cluster x's variables x's # of totals respondents per cluster = total %	FORMULA	LISTENING	SPEAKING	READING	
		-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	
	Cluster	5 = 100%	2 = 100%	3 = 100%	4 =
	GENERAL CANNONEER	$12 \times 5 \times 3 = 180$ $\begin{array}{r} 12 \\ 21 \\ 3 \\ \hline 16 \end{array}$ $180 \overline{) 2880}$	$12 \times 2 \times 2 = 48$ $\begin{array}{r} 5 \\ 13 \end{array}$ $48 \overline{) 864}$	$12 \times 3 \times 2 = 72$ $\begin{array}{r} 0 \\ 10 \\ \hline 10 \end{array}$ $72 \overline{) 1080}$	12 $\begin{array}{r} 3 \\ 1 \\ \hline 1 \end{array}$ $96 \overline{) 1152}$
TOTAL		36%	58%	22%	
	CANNONEER MAINTENANCE	$3 \times 5 \times 2 = 30$ $\begin{array}{r} 3 \\ 10 \\ \hline 13 \end{array}$ $30 \overline{) 390}$	$3 \times 2 \times 2 = 12$ $\begin{array}{r} 4 \\ 3 \\ \hline 7 \end{array}$ $12 \overline{) 84}$	$5 \times 3 \times 1 = 15$ $\begin{array}{r} 3 \\ 10 \\ \hline 13 \end{array}$ $9 \overline{) 135}$	$5 \times 4 \times 1 = 20$ $\begin{array}{r} 1 \\ 00 \\ \hline 100 \end{array}$ $20 \overline{) 200}$
TOTAL		57%	56%	53%	8%
	AMMUNITION	$5 \times 5 \times 2 = 50$ $\begin{array}{r} 5 \\ 16 \\ \hline 21 \end{array}$ $50 \overline{) 1050}$	$5 \times 2 \times 2 = 20$ $\begin{array}{r} 0 \\ 6 \\ \hline 6 \end{array}$ $20 \overline{) 120}$	$5 \times 3 \times 1 = 15$ $\begin{array}{r} 0 \\ 10 \\ \hline 10 \end{array}$ $15 \overline{) 225}$	$5 \times 4 \times 1 = 20$ $\begin{array}{r} 1 \\ 00 \\ \hline 100 \end{array}$ $20 \overline{) 200}$
TOTAL		42%	46%	13%	10%
	GUNNER	$7 \times 5 \times 2 = 70$ $\begin{array}{r} 1 \\ 13 \\ \hline 14 \end{array}$ $70 \overline{) 980}$	$7 \times 2 \times 2 = 28$ $\begin{array}{r} 5 \\ 15 \\ \hline 20 \end{array}$ $28 \overline{) 560}$	$7 \times 3 \times 2 = 42$ $\begin{array}{r} 8 \\ \hline 8 \end{array}$ $42 \overline{) 336}$	$7 \times 4 \times 1 = 28$ $\begin{array}{r} 1 \\ 00 \\ \hline 100 \end{array}$ $28 \overline{) 280}$
TOTAL		71%			

PERCENTAGE LANGUAGE SKILLS
NOS

LISTENING	SPEAKING	READING	WRITING
demonstration	-oral (test)	-self-paced	-lecture
lecture	-rating (scale)	-written (test)	-self-paced
hands-on		-rating (scale)	-written (test)
performance (test)			-rating (scale)
rating (scale)			
= 100%	2 = 100%	3 = 100%	4 = 100%
5x2 = 130	13x2x2 = 52	13x3x1 = 39	13x4x2 = 104
$\begin{array}{r} 7 \\ 9 \\ 10 \\ 26 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 26 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ 0 \\ 13 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 8 \\ 13 \\ \hline \end{array}$
$\begin{array}{r} 52 \overline{) 59.0} \\ 45 \\ \hline 14 \end{array}$	$\begin{array}{r} 52 \overline{) 52.0} \\ 54 \\ \hline 170 \end{array}$	$\begin{array}{r} 39 \overline{) 113.0} \\ 35 \\ \hline 380 \end{array}$	$\begin{array}{r} 104 \overline{) 128.0} \\ 21 \\ \hline 70 \end{array}$
5x2 = 130	13x2x2 = 52	15x3x1 = 39	15x4x2 = 124
$\begin{array}{r} 2 \\ 17 \\ 13 \\ 19 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ 9 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ 0 \\ 10 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ 0 \\ 0 \\ 10 \\ \hline \end{array}$
$\begin{array}{r} 52 \overline{) 59.0} \\ 45 \\ \hline 14 \end{array}$	$\begin{array}{r} 52 \overline{) 52.0} \\ 11 \\ \hline 70 \end{array}$	$\begin{array}{r} 39 \overline{) 110.0} \\ 26 \\ \hline 70 \end{array}$	$\begin{array}{r} 104 \overline{) 125.0} \\ 12 \\ \hline 70 \end{array}$
5x2 = 58	5x2x2 = 20	5x3x1 = 15	5x4x2 = 40
$\begin{array}{r} 6 \\ 0 \\ 1 \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ 0 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ 0 \\ 0 \\ \hline \end{array}$
$\begin{array}{r} 52 \overline{) 52.0} \\ 51 \\ \hline 10 \end{array}$	$\begin{array}{r} 20 \overline{) 20.0} \\ 10 \\ \hline 10 \end{array}$	$\begin{array}{r} 15 \overline{) 15.0} \\ 15 \\ \hline 0 \end{array}$	$\begin{array}{r} 4.15 \end{array}$
15x2 = 150	15x2x1 = 30	15x3x1 = 45	15x4x1 = 60
$\begin{array}{r} 15 \\ 15 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ 15 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ 15 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ 15 \\ \hline \end{array}$
$\begin{array}{r} 15 \overline{) 140.0} \end{array}$	$\begin{array}{r} 30 \overline{) 30.0} \end{array}$		$\begin{array}{r} 97 \end{array}$

PERCENTAGE LANGUAGE SKILLS
NOS

of tasks in cluster x's
variables x's # of totals
respondents per cluster =
total %

FORMULA	LISTENING	SPEAKING	READING	WRITING
	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
COMBAT TACTICS AND INTELLIGENCE	$13 \times 5 \times 2 = 130$ $\begin{array}{r} 11 \\ 16 \\ 14 \\ 15 \\ 18 \\ \hline 130 \end{array}$	$13 \times 2 \times 2 = 52$ $\begin{array}{r} 0 \\ 18 \\ \hline 52 \end{array}$	$13 \times 3 \times 1 = 39$ $\begin{array}{r} 0 \\ 0 \\ 6 \\ \hline 39 \end{array}$	$13 \times 4 \times 2 = 104$ $\begin{array}{r} 6 \\ 0 \\ 0 \\ 6 \\ \hline 104 \end{array}$
TOTAL	44%	50%	15%	12%
INDIVIDUAL WEAPONS - (MIGAI RIFLE)	$4 \times 5 \times 2 = 40$ $\begin{array}{r} 4 \\ 10 \\ 10 \\ 10 \\ 10 \\ \hline 40 \end{array}$	$4 \times 2 \times 1 = 8$ $\begin{array}{r} 8 \\ 11 \\ \hline 8 \end{array}$	$4 \times 3 \times 1 = 12$ $\begin{array}{r} 8 \\ 4 \\ \hline 12 \end{array}$	$4 \times 4 \times 2 = 32$ $\begin{array}{r} 4 \\ 10 \\ 10 \\ 10 \\ 10 \\ \hline 32 \end{array}$
TOTAL	80%	50%	33%	50%
INDIVIDUAL WEAPONS - (LAW)	$3 \times 5 \times 2 = 30$ $\begin{array}{r} 10 \\ 10 \\ 10 \\ \hline 30 \end{array}$	$3 \times 2 \times 2 = 12$ $\begin{array}{r} 6 \\ 6 \\ \hline 12 \end{array}$	$3 \times 3 \times 1 = 9$ $\begin{array}{r} 6 \\ 3 \\ \hline 9 \end{array}$	$3 \times 4 \times 1 = 12$ $\begin{array}{r} 3 \\ 10 \\ 10 \\ \hline 12 \end{array}$
TOTAL	83%	50%	67%	50%
INDIVIDUAL WEAPONS - (M203 GRENADE) (HAND GRENADE)	$5 \times 5 \times 2 = 50$ $\begin{array}{r} 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ \hline 50 \end{array}$	$5 \times 2 \times 2 = 20$ $\begin{array}{r} 10 \\ 10 \\ \hline 20 \end{array}$	$5 \times 3 \times 1 = 15$ $\begin{array}{r} 10 \\ 5 \\ \hline 15 \end{array}$	$5 \times 4 \times 1 = 20$ $\begin{array}{r} 10 \\ 10 \\ \hline 20 \end{array}$
TOTAL	50%	20%	15%	20%

PERCENTAGE LANGUAGE SKILLS
NOS

LISTENING	SPEAKING	READING	WRITING
demonstration	-oral (test)	-self-paced	-lecture
-lecture	-rating (scale)	-written (test)	-self-paced
-hands-on		-rating (scale)	-written (test)
-performance (test)			-rating (scale)
-rating (scale)			
5 = 100%	2 = 100%	3 = 100%	4 = 100%
$5 \times 1 = 10$ $\begin{array}{r} 2 \\ 2 \\ 2 \\ 2 \\ \hline 10 \end{array}$ $10 \overline{) 100}$ $10 \overline{) 100}$	$2 \times 2 \times 1 = 4$ $\begin{array}{r} 0 \\ 2 \\ \hline 4 \end{array}$ $4 \overline{) 20}$ $5 \overline{) 10}$	$3 \times 3 \times 1 = 9$ $\begin{array}{r} 0 \\ 0 \\ 0 \\ \hline 9 \end{array}$ $6 \overline{) 18}$ $3 \overline{) 9}$	$2 \times 4 \times 1 = 8$ $\begin{array}{r} 2 \\ 0 \\ 0 \\ \hline 8 \end{array}$ $8 \overline{) 40}$ $5 \overline{) 20}$
$5 \times 2 = 10$ $\begin{array}{r} 2 \\ 5 \\ \hline 10 \end{array}$ $50 \overline{) 100}$ $2 \overline{) 100}$	$5 \times 2 \times 2 = 20$ $\begin{array}{r} 0 \\ 3 \\ \hline 6 \end{array}$ $20 \overline{) 100}$ $5 \overline{) 20}$	$5 \times 3 \times 2 = 30$ $\begin{array}{r} 0 \\ 8 \\ \hline 16 \end{array}$ $30 \overline{) 100}$ $3 \overline{) 30}$	$5 \times 4 \times 1 = 20$ $\begin{array}{r} 1 \\ 0 \\ 0 \\ \hline 20 \end{array}$ $20 \overline{) 100}$ $5 \overline{) 20}$
$5 \times 2 = 10$ $\begin{array}{r} 6 \\ 11 \\ \hline 17 \end{array}$ $10 \overline{) 100}$ $2 \overline{) 100}$	$7 \times 2 \times 2 = 28$ $\begin{array}{r} 0 \\ 11 \\ \hline 22 \end{array}$ $28 \overline{) 100}$ $3 \overline{) 21}$	$7 \times 3 \times 1 = 21$ $\begin{array}{r} 0 \\ 10 \\ \hline 10 \end{array}$ $21 \overline{) 100}$ $4 \overline{) 28}$	$7 \times 4 \times 1 = 28$ $\begin{array}{r} 0 \\ 28 \\ \hline 28 \end{array}$ $28 \overline{) 100}$ $3 \overline{) 21}$
$5 \times 2 = 10$ $\begin{array}{r} 5 \\ 5 \\ \hline 10 \end{array}$ $10 \overline{) 100}$ $2 \overline{) 100}$	$4 \times 2 \times 2 = 16$ $\begin{array}{r} 0 \\ 1 \\ \hline 2 \end{array}$ $16 \overline{) 100}$ $6 \overline{) 32}$	$3 \times 4 \times 1 = 12$ $\begin{array}{r} 1 \\ 1 \\ \hline 2 \end{array}$ $12 \overline{) 100}$ $8 \overline{) 24}$	$4 \times 4 \times 1 = 16$ $\begin{array}{r} 1 \\ 1 \\ \hline 2 \end{array}$ $16 \overline{) 100}$ $6 \overline{) 32}$

PERCENTAGE LANGUAGE SKILLS
NOS

LISTENING

SPEAKING

READING

WRITING

-demonstration

-oral (test)

-self-paced

-lecture

-lecture

-rating (scale)

-written (test)

-self-paced

-hands-on

-rating (scale)

-written (test)

-performance
(test)

-rating (scale)

-rating
(scale)

5 = 100%

2 = 100%

3 = 100%

4 = 100%

M101/M102

$$19 \times 5 \times 2 = 190$$

$$19 \times 2 \times 2 = 76$$

$$19 \times 3 \times 1 = 57$$

$$19 \times 4 \times 1 = 76$$

$$\begin{array}{r} 19 \\ 0 \\ 32 \\ 27 \\ 32 \\ \hline 190 \end{array}$$

$$\begin{array}{r} 1 \\ 32 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ 0 \\ 13 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ 8 \\ 13 \\ \hline \end{array}$$

$$190 \overline{) 110.0}$$

$$76 \overline{) 33.0}$$

$$57 \overline{) 13.0}$$

$$76 \overline{) 13.0}$$

$$58\%$$

$$42\%$$

$$23\%$$

$$11\%$$

M114/1

$$14 \times 5 \times 2 = 140$$

$$14 \times 2 \times 2 = 56$$

$$14 \times 3 \times 1 = 42$$

$$14 \times 4 \times 1 = 56$$

$$\begin{array}{r} 14 \\ 0 \\ 22 \\ 20 \\ 28 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ 22 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ 0 \\ 42 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ 0 \\ 56 \\ \hline \end{array}$$

$$140 \overline{) 78.0}$$

$$56 \overline{) 22.0}$$

$$42 \overline{) 9.0}$$

$$56 \overline{) 9.0}$$

$$55\%$$

$$39\%$$

$$21\%$$

$$10\%$$

M1109/M1109A

$$12 \times 5 \times 2 = 120$$

$$12 \times 2 \times 2 = 48$$

$$12 \times 3 \times 1 = 36$$

$$12 \times 4 \times 1 = 48$$

$$\begin{array}{r} 12 \\ 0 \\ 18 \\ 12 \\ 18 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ 18 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ 0 \\ 36 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ 0 \\ 48 \\ \hline \end{array}$$

$$120 \overline{) 71.0}$$

$$48 \overline{) 13.0}$$

$$36 \overline{) 6.0}$$

$$48 \overline{) 5.0}$$

$$59\%$$

$$50\%$$

$$17\%$$

$$10\%$$

M1101/M1101A

$$13 \times 5 \times 2 = 130$$

$$13 \times 2 \times 2 = 52$$

$$13 \times 3 \times 1 = 39$$

$$13 \times 4 \times 1 = 52$$

$$\begin{array}{r} 13 \\ 0 \\ 26 \\ 13 \\ 26 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ 26 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ 0 \\ 39 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ 0 \\ 52 \\ \hline \end{array}$$

$$130 \overline{) 73.0}$$

$$52 \overline{) 12.0}$$

$$39 \overline{) 6.0}$$

$$52 \overline{) 4.0}$$

$$55\%$$

$$60\%$$

$$34\%$$

$$52\%$$

PERCENTAGE LANGUAGE SKILLS
NOS

FORMULA	LISTENING	SPEAKING	READING	WRITING
	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
ADDITIONAL TASKS AND DUTIES M115	$12 \times 5 \times 0 = 0$ $\frac{0000}{10000}$	$12 \times 2 \times 0 =$ $\frac{0}{10000}$	$12 \times 3 \times 0 = 0$ $\frac{000}{10000}$	$12 \times 4 \times 0 = 0$ $\frac{0000}{10000}$
RADIO/TELEPHONE OPERATOR	$11 \times 5 \times 0 =$ $\frac{0000}{10000}$	$11 \times 2 \times 0 =$ $\frac{00}{10000}$	$11 \times 3 \times 0 =$ $\frac{000}{10000}$	$11 \times 4 \times 0 = 0$ $\frac{0000}{10000}$
VEHICLE DRIVER	$13 \times 5 \times 0 = 130$ $\frac{15}{13000}$ $\frac{13000}{13000}$	$13 \times 2 \times 2 = 52$ $\frac{0}{50000}$ $\frac{50000}{50000}$	$13 \times 3 \times 0 = 64$ $\frac{0}{60000}$ $\frac{60000}{60000}$	$13 \times 4 \times 0 = 71$ $\frac{0}{80000}$ $\frac{80000}{80000}$
NUCLEAR SECURITY	$4 \times 12 \times 0 = 0$ $\frac{0}{10000}$	$4 \times 2 \times 0 = 0$ $\frac{0}{10000}$	$4 \times 3 \times 0 = 0$ $\frac{0}{10000}$	$4 \times 4 \times 0 = 0$ $\frac{0}{10000}$

PERCENTAGE LANGUAGE SKILLS
NOS

of tasks in cluster x %
variables x % of totals
respondents per cluster =
total %

FORMULA

LISTENING

SPEAKING

READING

WRITING

-demonstration

-oral (test)

-self-paced

-lecture

-lecture

-rating (scale)

-written (test)

-self-paced

-hands-on

-rating (scale)

-written (test)

-performance
(test)

-rating (scale)

-rating
(scale)

Cluster

5 = 100%

2 = 100%

3 = 100%

4 = 100%

DEMOLITIONS

$$4 \times 5 \times 0 = 0$$

$$4 \times 2 \times 0 = 0$$

$$4 \times 3 \times 0 = 0$$

$$4 \times 4 \times 0 = 0$$

0
100.00

0
100.00

0
100.00

0
100.00

0%

0%

0%

0%

ASSEMBLER:
8-INCH ATOMIC
PROJECTILE

$$12 \times 5 \times 0 = 0$$

$$12 \times 2 \times 0 = 0$$

$$12 \times 3 \times 0 = 0$$

$$12 \times 4 \times 0 = 0$$

0
100.00

0
100.00

0
100.00

0
100.00

0%

0%

0%

0%

ASSEMBLER:
155MM
ATOMIC
PROJECTILE

$$11 \times 5 \times 1 = 55$$

$$11 \times 2 \times 1 = 22$$

$$11 \times 3 \times 0 = 0$$

$$12 \times 4 \times 1 = 48$$

1
100.00

1
100.00

0
100.00

1
100.00

55.00

22.00

5.0%

2.2%

0.0%

4.0%

ARTILLERY
MECHANIC
(ALL)

$$4 \times 5 \times 1 = 20$$

$$4 \times 2 \times 1 = 8$$

$$4 \times 3 \times 0 = 0$$

$$4 \times 4 \times 1 = 16$$

1
100.00

1
100.00

0
100.00

1
100.00

20.00

8.00

5.0%

2.0%

0.0%

4.0%

PERCENTAGE LANGUAGE SKILLS
NOS

LISTENING	SPEAKING	READING	WRITING
demonstration	-oral (test)	-self-paced	-lecture
lecture	-rating (scale)	-written (test)	-self-paced
hands-on		-rating (scale)	-written (test)
performance (test)			-rating (scale)
rating (scale)			
= 100%	2 = 100%	3 = 100%	4 = 100%
5 X 1 = 30	6 X 2 X 1 = 12	6 X 3 X 1 = 18	6 X 4 X 1 = 24
$\begin{array}{r} 120 \\ 5 \overline{)120} \\ \underline{100} \\ 20 \end{array}$	$\begin{array}{r} 120 \\ 6 \overline{)120} \\ \underline{120} \\ 0 \end{array}$	$\begin{array}{r} 180 \\ 6 \overline{)180} \\ \underline{180} \\ 0 \end{array}$	$\begin{array}{r} 240 \\ 6 \overline{)240} \\ \underline{240} \\ 0 \end{array}$
5 X 1 = 25	5 X 2 X 1 = 10	5 X 3 X 1 = 15	4 X 4 X 0 = 0
$\begin{array}{r} 20 \\ 5 \overline{)20} \\ \underline{20} \\ 0 \end{array}$	$\begin{array}{r} 10 \\ 5 \overline{)10} \\ \underline{10} \\ 0 \end{array}$	$\begin{array}{r} 15 \\ 5 \overline{)15} \\ \underline{15} \\ 0 \end{array}$	$\begin{array}{r} 0 \\ 4 \overline{)0} \\ \underline{0} \\ 0 \end{array}$
5 X 1 = 70	14 X 2 X 1 = 28	14 X 3 X 1 = 42	14 X 4 X 0 = 0
$\begin{array}{r} 70 \\ 5 \overline{)70} \\ \underline{70} \\ 0 \end{array}$	$\begin{array}{r} 28 \\ 14 \overline{)28} \\ \underline{28} \\ 0 \end{array}$	$\begin{array}{r} 42 \\ 14 \overline{)42} \\ \underline{42} \\ 0 \end{array}$	$\begin{array}{r} 0 \\ 14 \overline{)0} \\ \underline{0} \\ 0 \end{array}$
5 X 0 = 0	9 X 2 X 0 = 0	9 X 3 X 0 = 0	9 X 4 X 0 = 0
$\begin{array}{r} 0 \\ 5 \overline{)0} \\ \underline{0} \\ 0 \end{array}$	$\begin{array}{r} 0 \\ 9 \overline{)0} \\ \underline{0} \\ 0 \end{array}$	$\begin{array}{r} 0 \\ 9 \overline{)0} \\ \underline{0} \\ 0 \end{array}$	$\begin{array}{r} 0 \\ 9 \overline{)0} \\ \underline{0} \\ 0 \end{array}$

APPENDIX 4

This appendix contains the Observation Forms. These forms were taken to the actual training sites. Here, observers recorded actual training situations and language used in the training. These forms were used to indicate the **CONDITIONS** for the Job Language Performance Requirements in MOS 13B.

NOS OBSERVATION FORM

MOS 13B

LOCATION FT SILL, OKLA.

TASK # 061-267-1411 PERSON RECORDING R. L. KERN

SUBJECT ASSEMBLY/DISASSEMBLY OF THE GREEN AND FIRING MECHANISM, M103

INSTRUCTION

Physical Environment

COMMENTS

1. Classroom
- ✓ 2. Open Areas (live fire field, make-up terrain)
3. Large enclosed area (bleacher sites, warehouse size)
4. Other (comments)

Instructional Ratio

1. Instruct or one-to-one/class
2. Peer/one-to-one
- ✓ 3. Group or Committee group¹
- ✓ 4. Small (12 or less)
5. Other (comments)

MODES OF INSTRUCTION

COMMENTS

- 1. Films
- 2. Video cassettes
- 3. Graphic training aids (diagrams, etc.,)
- 4. Illustrations a) requiring reading
 b) not requiring reading
- 5. Maps
- 6. Mock-ups
- 7. Models/Simulated
- ✓ 8. Real equipment
- 9. Transparencies

A 4-2-13B

¹Group of instructors of whom one teaches one portion of the whole

MOS OBSERVATION FORM

MOS 13B LOCATION FT. SILL, OKLAHOMA
 TASK # 061-271-1515 PERSON RECORDING R. L. KERN
 SUBJECT LOAD A PREPARED ROUND FOR FIRING

INSTRUCTION

Physical Environment

COMMENTS

- ☐ 1. Classroom
- ☒ 2. Open Areas (live fire field, make-up terrain)
- ☐ 3. Large enclosed area (bleacher sites, warehouse size)
- ☐ 4. Other (comments)

Instructional Ratio

- ☐ 1. Instruct or one-to-one/class
- ☐ 2. Peer/one-to-one
- ☒ 3. Group or Committee group¹
- ☒ 4. Small (12 or less)
- ☐ 5. Other (comments)

MODES OF INSTRUCTION

COMMENTS

- ☐ 1. Films
- ☐ 2. Video cassettes
- ☐ 3. Graphic training aids (diagrams, etc.,)
- ☐ 4. Illustrations a) requiring reading
b) not requiring reading
- ☐ 5. Maps
- ☐ 6. Mock-ups
- ☐ 7. Models/Simulated
- ☒ 8. Real equipment
- ☐ 9. Transparencies

A 4-4-13B

¹Group of instructors of whom one teaches one portion of the whole

MOS OBSERVATION FORM

NOS 13B LOCATION FT SILL, OKLAHOMA
 TASK # _____ PERSON RECORDING R. L. KERN
 SUBJECT MISSION/ORGANIZATION OF THE FIELD ARTILLERY

INSTRUCTION

Physical Environment

COMMENTS

- ☒ 1. Classroom
- ☐ 2. Open Areas (live fire field, make-up terrain)
- ☐ 3. Large enclosed area (bleacher sites, warehouse size)
- ☐ 4. Other (comments)

Instructional Ratio

1. Instruct or one-to-one/class
2. Peer/one-to-one
- ✓ 3. Group or Committee group¹
4. Small (12 or less)
5. Other (comments)

OVER 200 STUDENTS

MODES OF INSTRUCTION

COMMENTS

- ☐ 1. Films
- ☐ 2. Video cassettes
- ☒ 3. Graphic training aids (diagrams, etc.,)
- ☒ 4. Illustrations a) requiring reading
b) not requiring reading
- ☐ 5. Maps
- ☐ 6. Mock-ups
- ☐ 7. Models/Simulated
- ☐ 8. Real equipment
- ☐ 9. Transparencies

A 4-5-13B

¹Group of instructors of whom one teaches one portion of the whole

APPENDIX 5

STRUCTURAL/LEXICAL LIST

This is the final list of
structural and lexical items,
grammatically named for
MOS 13B .

(For discussion, see Section II)

STRUCTURAL ITEMS

SENTENCES TYPES

1. SIMPLE: One subject and one predicate

PATTERNS:

1. Subject and action verb You are to move 715 meters.
2. Subject and action verb and direct/indirect object
Many things cause burns.
3. Subject and linking verb and subjective complement
This is very important.

2. COMPOUND: Two or more sentences joined by:

1. Coordinating conjunction

Explain the task and ask the trainees if they understand the task, and the conditions they are expected to perform at the end of the session, the conditions under which they must operate, and the standard they must achieve.

2. Conjunctive adverb

Do not start or stop the vehicle while the radio is on or you may damage the set.

3. Semicolon

A light pressure is exerted on the driving spring when the bolt is forward; however, never attempt to cock the gun while the backplate is off and the driving spring assembly is in place.

3. COMPLEX: One or more dependent clauses

1. Adjectival (functions as an adjective by modifying nouns and pronouns)

At the bottom of the map you will find three different bar scales which will help you to change map distance to mile, meters, or yards.

2. Adverbial (functions as an adverb by modifying verbs, adjectives, and other adverbs)

The mouth-to-nose method is performed in the same way

3. Noun (functions as a noun)

except you blow into his nose while you pinch his lips closed with one hand.

A person who is performing artificial respiration quickly blows into the casualty's lungs after each five compressions.

LEXICAL ITEMS

ADJECTIVALS

"rifle bore cleaner"
"waste material"
"burning residue"
"semi-fixed ammunition"
"extracting/loading ammunition"
"firing hammer"
"four life-saving steps"
"chest/heart massage"
"tourniquet material"
"field material"
"field condition"
"mouth-to-mouth resuscitation"

ADJECTIVES

1. WORD + ABLE AVAIL + ABLE

2. COMPARATIVES

Threat main tanks are smaller than the US main battle tanks.

3. SUPERLATIVES

The most dangerous targets are those that see you, have the capability of killing you, and appear to be preparing to engage you.

PRONOUNS

1. INDEFINITE

Have someone walk the FDL (if enemy situation permits), and determine dead space (sections of FDL where individual drops below line of sight).

2. POSSESSIVE

(nouns and apostrophe)

Shake the soldier's shoulder and shout, "Are you OK.?"

3. SUBJECTIVE

This will give you correct nomenclature.

4. OBJECTIVE

It will also give you the correct functioning.

5. REFLEXIVE

Keep yourself clear of the muzzle.

INTERROGATIVE

(do, does, modal, wh-, tag, inverted)
But what about the other 15 meters?
Ask, "What is there?"

DECLARATIVE

Your pace count for 100 meters is equal to 116 paces.

EXCLAMATORY

These are your coordinate scales!

IMPERATIVE

(requests, commands, second person (singular/plural,
negative/affirmative), First and second person (let's))

ELLIPSIS:

Split the bracket until fire for effect is possible. *most common type
of ellipsis--subject deleted.

FRAGMENT

Movement to occupy a position.
All other parts.

ADVERBIAL CLAUSES*

1. PURPOSES

Training must be conducted so that at least 80% of the students can
accomplish the task trained to the standards of specified for the task.

2. CONTRAST

Although natural terrain features are likely not to change and make
good reference points to orient a map, you may also use manmade
features such as roads, bridges, etc., to orient your map.

3. COMPARISON

Unable to find.

4. RESULT

Insure that the key list extracts are completely destroyed so that they
can't be read.

5. MANNER

* Unable to find.

6. TIME

When you have to go a certain distance on foot without any landmarks to guide you, you can measure distance pretty accurately by counting your paces.

Split the bracket until the fire for effect is possible.

7. PLACE - you may now navigate from where you are to any location on the map.

8. CAUSE

Be careful not to depress the trigger, since this will cause the firing pin to be released.

9. ADVERSATIVE

* Unable to find.

10. CONDITION

If it isn't, your rifle can still fire, but it could possibly explode, causing you harm.

PHRASES

3. GERUND

(upon) Hearing the correct password, give permission to pass if you have no other reasons to doubt.

4. PARTICIPIAL

Boresight the panoramic telescope using the proper diagram at the testing target within 2 minutes

5. INFINITIVE

Operate press-to-talk switch to talk, and release to listen.

6. PREPOSITIONAL

Under certain light conditions, front sight ports can be seen, but you can't determine whether you are looking through, above, or to the side of the rear sight aperture.

VERBS

1. VERB TENSES

Make sure you clearly understand the task you are to teach.

--You will be tested.

--If they elect to take it, they must complete the test once they have begun the first event or else they will receive a NO GO for the entire test.

--If the soldier is breathing, mouth-to-mouth resuscitation is not necessary.

--When all 10 pebbles have been moved to the left pocket, you have traveled one kilometer.

--Have someone walk the FDL and determine dead space.

--Sensing is an instantaneous determination by the grenadier as to where the grenade exploded.

present progressive verb
present verb (uninflected, third
person, indicative)
past tense (regular/irregular)
present perfect
future

2. TYPES

intransitive Frostbitten skin is whitish, stiff, and numb.

transitive (You will) lay the cannon to an accuracy of zero m^{ils} on the...

linking If a soldier appears to have a minor injury....

The skin becomes inflamed.

3. VOICE

active

recognize
protect
is facing
pop. contain
explode
sounds
points out
seen

appear
seek
secure
wear
mask
stored
do require
could affect

has
must be
wipe
rinse
put brush
empty
reassemble
reinstall
remove

passive

given
is protected
is sprayed

are alerted
are reported
have been corrected

are authorized
be corrected

passive+verb+ing

"task will be performed
using procedures"

modal+passive voice

projectile must be rejected and returned
modal+negative+passive

4. MODALS

can not be determined

You must demonstrate, once every 6 months, that you can meet or ^{Ex}succeed the minimum level of physical fitness required of each member of your unit in accordance with the standards contained in AR 600-9.

Personnel over the age of 40 may elect not to take the APFT. The pulse should be found in the soft area between the Adam's apple and the large muscle on the side of the neck.

Injury or death could result.

During surveillance the operator will have to adjust the range focus to get a sharp image at different ranges.

"might have to be placed"

"be"

"will be given"

"should be"

"must"

"must be"

"can"

"can be"

"may be"

"should not be"

5. AUXILIARIES

(do, does, negative)

Do not zero in under 100 meters.

If the round does not fall within 5 meters of target, zeroing procedures are called for.

GERUNDS

Sensing is an instantaneous determination by the grenadier as to where the grenade explodes with respect to the target.

INFINITIVES

Inspect the breech mechanism to determine the nature of the malfunction.

ADVERBS +

1. SUPERLATIVE

When such a line of fire exists, the primary sector will be assigned, based on it, with the FDL being the sector limit closest to the friendly troops.

2. INDEFINITE

The launcher has a heavy coat of oil on working parts, and a light coat of oil elsewhere.

3. FREQUENCY

Apply a little graphite grease to the threads of the antenna section for easy removal and to prevent the sections from seizing if they have been rarely removed.

4. OTHER

Assembly procedure for the grenade launcher merely reverses disassembly steps.

5. COMPARATIVE

The care, cleaning, lubrication and adjustment of the mount used with the gun are no less important.

VERBS AND PREPOSITIONS

Line up the key in the receptacle with the slot in the cable connector.

VERBS AND ADVERB

(particles)

Put on the protective mask within nine seconds of the chemical alarm and remain in the contaminated area for at least two minutes without making further adjustments to the mask.

*Negatives

Prepositions

Articles

Pre-BT--not included because of Section II
in this document

**JOB LANGUAGE PERFORMANCE REQUIREMENTS
FOR 13B
CANNON CREWMAN**

VOLUME II

APPENDIX 6

VOCABULARY (in-house)

The following vocabulary list was extracted from the Soldier's Manual task by task and then categorized into GENERAL, BASIC AND TECHNICAL vocabulary.

MOS 13B

Task Number: 061-266-1101

Task: Prepare a position to receive/emplace a cannon

GENERAL

announce
approval
available

clear

debris
dig
direction
distance
double-check

equipment
exact

flashlight
follow

horizontally

insure

lay
level
line
location

mark
measure
meter

note

obstacle
operational
operator
orderly

personal
pick
prepare

qualified

rapid
receive
record
report
rocks
route

select
shovel
straight

walk
wire

BASIC MILITARY

aline
assembly point

commander
compass

emplace
entry point
entry route

first sergeant

gun

NCO

occupation

pace
position

reconnaissance party

weapon

Task Number: 061-266-1101

TECHNICAL

aiming circle
aiming post
azimuth of fire

battery

cannon

deflection
direction of fire

ground guide
guide stake
gun guide
gunnery sergeant

hasty occupation
high angle pits
howitzer

lay

MIL

night lighting device

orient

pantel marking stake
powder pits
prime mover

spade pits
subtense angle
subtense method

towed weapon

MOS 13B

Task Number: 061-266-1103

Task: Emplace/recover collimator

GENERAL

adjust
assistant

complete
cover

direct
direction
disconnect

emplace
extend

follow
front
fully

install
insure

left
legs
level
loosen

place
position

recover
remove
replace
rotate

secure
signal

tighten

unstrap

vertical

BASIC MILITARY

aline
alinement

down position

front sight

muzzle

on command
optimum distance

rear sight

sight

tripod

TECHNICAL

adjustment knob
azimuth

cannon
clamping knob
collimator
cross-level clamping knob
cross-level vial

elevation

gunner

howitzer

laid
lamp housing

muzzle blast

night lighting device

optical system

pantel

stowed position

MOS 13B

Task Number: 061-266-1104

Task: Emplace/recover aiming posts

GENERAL

aim
aline
approximately
assemble
assistant
attach

darkness
direction
disassemble
distance

emplace

face

ground

hands
hold
horizontal

insert

length
light
location

measure
meter
mounted
move

night

position
procedure
proper
pull

recover
remove
repeat
replace

section
set
signal

top
turn on

upper

BASIC MILITARY

weapon

TECHNICAL

aiming post

cannon

far post

gunner

howitzer

laid

MIL

near post
night lighting device

pantel
piece
post

section vehicle
stadia method
stowed position

telescope

vertical hairline

MOS 13B

Task Number: 061-266-1701

Task: Establish and maintain communications with the FDC

GENERAL

action
allow

back-up
broken

connect
connected to
connection

describe
determine

end
establish

fail
foot traffic

hook up

inoperative
install
insure

leave
line

maintain
minute

operate

permit
protect

rear
repair
route

slack

take
telephone
tie off
time

vehicle
vehicle traffic
visual signal
voice signal

wire

BASIC MILITARY

communications

field

lay

position

SOP

TECHNICAL

clear transmission

fire commands
fire direction center

hot loop
howitzer

intercom
intercom system

modified reel

open circuit

remote unit

self-propelled
short circuit

telepost terminal

MOS 13B

Task Number: 061-266-1702

Task: Monitor/relay and record fire commands

GENERAL

adjacent
audibly

clearly
complete
continue
count
current

darkness
direct
doubt

error
established

flashlight

halfway
heading
hear
hour

immediately
information

maintain
member
monitor

necessary
notify

operational

pencil
position
possible
proper
record,
relay
request

standards

voice

BASIC MILITARY

ammunition

field telephone circuit

voice communications back-up

weapon
wire communications

TECHNICAL

ammunition column

cannon section
command

fire command
fire direction center

howitzer

mission

numeric pronunciation

phonetic alphabet
procedural word

readback
record of missions fired

section

MOS 13B

Task Number: 061-266-1215

TAsk: Set/lay the cannon for quadrant with the range quadrant

GENERAL

accuracy
announced

center .

depress

elevate

necessary

read back
relevel

TECHNICAL

bubble

cannon
command
cross-level bubble
cross-level knob

deflection

elevation counter
elevation scale

fire command
fire control equipment

high angle mission
howitzer

lay
longitudinal bubble

micrometer scale
MIL

night lighting device

quadrant

range quadrant

set
sighting equipment
special correction

tube

MOS 13B

Task Number: 061-266-1216

Task: Measure the quadrant with the range quadrant

GENERAL

accuracy
announce

center

measure
move

positioned

read
remove

unknown

BASIC MILITARY

TECHNICAL

bubble

elevation counter
elevation micrometer scale
elevation scale

howitzer

MIL

quadrant

range quadrant

special corrections

tube

MOS 13B

Task Number: 061-266-1217

Task: Sight on a target with a direct fire/elbow telescope

GENERAL

announce
applicable
appropriate

correct
correction

depress

elevate

float

insure

look through

mount

repeatedly

seconds
secure
securely
set

telescope

BASIC MILITARY

fire

range

sight

target
track

weapon

TECHNICAL

ammunition scale

cannon
center of mass
command
cross-level bubble

direct fire

elbow telescope
elevation scale

fire command

night lighting device

range gauge knob
range line
reticle pattern

section chief
sight picture

tube

MOS 13B

Task Number: 061-266-1218

Task: Fire the cannon

GENERAL

attach

command

correct

hand

insure

left

loaded

location

locked

manner

path

place

position

procedure

release

safe

slack

snap

BASIC MILITARY

field

fire

recoil

weapon

TECHNICAL

cannon

firing hammer

firing mechanism

lanyard

lanyard lever

MOS 13B

Task Number: 061-266-1219

Task: Clear powder chamber after firing

GENERAL

announce

burning

call out

check

clear

grasp

materials

necessary
number

open

rear
remove
residue

smoke
swab

toss

wait
wipe

BASIC MILITARY

fire

TECHNICAL

bore
bore clear
breach

cannister

extracting tool

forcing cone

howitzer

obturator spindle head

powder chamber
primer
primer vent

quadrant

round

semifixed ammunition
separate loading ammunition
tube

MOS 13B

Task Number: 061-266-1517

Task: Unload the cannon (separate loading ammunition)

GENERAL

accordance
aid
applicable
assemble
assistant
attach
attempt

block

carefully
close
container
correctly
cover

depress
direct
disposal
dispose of

elevation
encircle

fill

hand
hit
hot

increase
increments
identical
insert

loaded
loosen

mark
marking
material
move

necessary

open
original

packing
position
pressure
push

rag
reassemble
reload
remove
repackage
replace
reset

seat
situation
strike
supervision

turn in

unload

waste
wooden

BASIC MILITARY

fire

officer

unserviceable

Task Number: 061-266-1517

TECHNICAL

ammunition section

breech
breech block

cannon
chamber
complete round

firing lock
firing position
fuze

grommet

loading tray

muzzle

nose plug

powder
powder charge
primer
projectile

rammer head
rammer staff
rotating band
round

safe
separate loading ammunition
supplementary charge

tube

unloading rammer

MOS 13B

Task Number: 061-266-1220

Task: Command "check firing" when unsafe conditions exist

GENERAL

act
area

cease
command
condition

engaged
enter
exist

front

inspect
insure

observe
observable
obstruction

path
position
proper

unsafe

BASIC MILITARY

fire
flank

recoil

weapon

TECHNICAL

battery

cannoneer
chamber
check firing

round

separate loading ammunition
swab

tube

MOS 13B

Task Number: 061-266-1401

Task: Inspect and clean collimator

GENERAL ENGLISH

battery
binding
burred metal

cable
chain
clean
cleanliness
cleaning
cloth
complete
component
correct
cracks

damp
detect
device

examine
external power

fastener
fault
fogging
function

glass

inspect
insure
intact

knob

lamp
loose

materials
metal
missing
moving

obvious

parts
power source
present
properly

required
rust

scratches
spot paint
sticking
supervision

working

TECHNICAL

camel's hair brush
collimator
crocus cloth

lamp housing
lens paper

night lighting device

power pack

seal
section chief
self-propelled weapon

MOS 13B

Task Number: 061-266-1402

Task: Inspect and clean aiming posts and night lighting devices

GENERAL ENGLISH

BASIC MILITARY

TECHNICAL

battery
broken lens
bulb

check
clamp
clean
cleaning
cloth
correct
crack

damp
defect
dent
detect

equipment
examine

fastener
faults
fit
function

green

inspect
install

lens

materials
minute
missing cap

necessary

obvious
operational

paint
part
present
proper
properly

red
rusted

spot
supervision

aiming post

crocus cloth

female connector

male connector

night lighting device

section chief

MOS 13B

Task Number: 061-266-1403

Task: Clean cannon tube and chamber

GENERAL ENGLISH

allow
angle
applicable
apply
appropriate
assemble
assistant
ATTACH
clean
cleaner
cleaning
coat

depress
direct
dry

elevate
end
equipment

flow

inside

length
light
lower

materials

necessary
number

oil
opposite

poor
pull
push

rags
replace

section
soapy

vary

warm
water

BASIC MILITARY

fire

weapon

TECHNICAL

bell rammer
bore
bore brush

cannon
chamber

howitzer

lubrication order

rammer staff
rifle bore cleaner

solvent

tube

MOS 13B

Task Number: 551-721-1870

Task: Operate the material handling hoist on the M548 cargo carrier

GENERAL ENGLISH

assistant

beam

chain

connect

correct

counterclockwise

desired

hit

hoist

lift

load

lock

lower

material

move

off-load

operate

pin

position

pounds

procedure

properly

pull

raise

rear

release

remove

reverse

rotate

slide

stow

use

weigh

wrap

TECHNICAL

beam stop

cargo carrier

hand chain

hoist beam

hoist beam lock

hook

lifting sling

load chain

load position

material handling hoist

rear support

sling

stowed position

strap assembly

support pin handle

support retaining pin

travel position

trolley hoist

trolley lock

MOS 13B

Task Number: 061-266-1501

Task: Transport cannon ammunition on vehicles

GENERAL

adequate
air
allow
arranged
assistants

bed
blocked
box
break

carrying
circulate
closed
container

damage
direct
distributed
drain off

expose

fire extinguisher

heat
help

insure

know

lay
length
lift
load
loose

marking
marking sign
materials
moisture
move

necessary

off load
outside
overheat
overloaded

parallel

periodically
place
prevent
proper
protected
provide

roll
rules

seal
secure
securely
segregate
shift
stack
store
sunlight

temperature
trailer
transport
truck

vehicle
visible

water
weather
weight

BASIC MILITARY

ammunition

canvas
cargo carrier

drain plug
dunnage

end curtain

floor rack

pallet

ridge pole

side rack

Task: 061-266-1501

TECHNICAL

ammunition section.

base

cannon

howitzer

loading plan
lot

prime mover
projectile

round

stripping

towed
type

weight zone
white phosphorus

MOS 13B

Task Number: 061-266-1502

Task: Prepare cannon ammunition for helicopter resupply

GENERAL

assistant
attach

bag
bolt

capability
chain
check
corner
cuts

determine

end
exceed

fold

grease

lace
lift
load
loose

medium
movement

nylon

oil

place
position
prepare
proper
properly

required
resupply
rig
roll

safely
secure
serviceability
signs
strap

tape
tears
transporting

wear

BASIC MILITARY

air delivery cargo bag
air delivery sling
ammunition

clevice

D-ring

helicopter

link assembly

multiple leg sling

nylon cord

sling
support web
suspension web

TECHNICAL

Cannon

MOS 13B

Task Number: 061-266-1504

Task: Store cannon ammunition at a cannon position

GENERAL

access
action
air
airspace
allow
aluminum
arrange
assistant

body
box

carefully
clearly
components
container
cover
covered

delivery
dig
ditch
downwind
drainage
driest
dry

easy
elements
essential

flow

handle

immediate
improve
initially
insure

keep

materials
maximum

nonsparking tool

open
open fire
overhead

path
place
position
possible
prearranged
protection
provide

rapid

segregate
separate
side
smoking
stack
store
use
visible

work

BASIC MILITARY

ammunition

camouflage

dunnage

emplacement

fire

recoil

stripping

target
tarpaulin

weapon

TECHNICAL

base
beehive round

cannon
chemical round

field artillery

lot
lot number

prime mover
projectile

section

type

weight zone
white phosphorus

MOS 13B

Task Number: 061-266-1506

Task: Prepare separate loading ammunition for firing

GENERAL ENGLISH

accuracy
aid
applicable
assist
assistant
available

can
clean
combination
components
container
correct
covering
cut

error

hand tool

identify
inspect
install

marking
move

open

pass
place
position
prepare
proper
properly
protect
protective

receipt
remove

safely
seat
second
select
serviceability
set

types

various
vehicle

BASIC MILITARY

ammunition

fire

load

tarp

weapon

TECHNICAL

additive jacket
announced charge

borewear reducing

cannoneer
charge
color code

delay

fire command
flash reducer
fuze
fuze setter
fuze setting
fuze well
fuze wrench

grommet

igniter pad
impact fuze

lifting plug
loading tray

mechanical time fuze

night lighting device

primer
projectile
propellant
proximity fuze

rotating band
round

section
separate loading ammunition

stenciled
superquick
supplementary charge

VT fuze

MOS 13B
Task Number: 061-266-2221
Task: Lay the cannon for initial direction of fire

GENERAL

accuracy
add
after
announce

before

center
centered
correct

digits
door

edge
employed
establish
exactly

identified
identify
initial
insure

know

last
left

method
motion
move

necessary
normally
number

open

paragraph
procedures
proper

rapid
recheck
record
repeat
report
rest
right

same

seconds
set
subtract

turning

use

within

BASIC MILITARY

compass

MIL

series
sight

weapon

TECHNICAL

aiming circle
aiming point
alined
azimuth counter
azimuth of fire

base piece
bubbles

cannon
commands
counter dial

deflection
direction of fire
disengaging
distant aiming point

firing battery

graduation
gunner
gunner's reference card

in position

laid
laid parallel
lay
laying

micrometer scale
motor carriage

occupation of position

pantel
pantel vertical reticle
piece

read back
ready for recheck
reciprocally
refer
rotating head

scale
set off
shift

throwout lever
trails
traverse
tube

vertical reticle

MOS 13B

Task Number: 061-266-2222

Task: Verify direction of fire with reciprocal check

GENERAL

acting
add
announce

between
both

competent
compute
correct

difference
different
determine

error
exist

identified
insure

light

marked

night
number

parallel

read

same
subtract

use

verify

wait
while

BASIC MILITARY

MIL

series
sight

weapon

TECHNICAL

adjacent piece
aiming point
aiming point this instrument
azimuth
azimuth counter

chief of firing battery
command
controlling piece

deflection
direction of fire

executive officer

gunner

laid
lighting device
line of sight

nonslipping azimuth scale

panoramic telescope

reciprocal check
refer

tube

MOS 13B
Task Number: 061-266-2223
Task: Aline collimator/aiming posts

GENERAL

adjust
arm
assistant

best

centered
check
correct

direct
direction

hand

insure.

level
look through

meter
minute

number

operational

position
possible

read
ready
recommended
record
return

section
shown
signals
start

take
time
turn

until

visible

when
within

BASIC MILITARY

camouflage

field manual

series

weapon

TECHNICAL

aiming point
aiming post
aline
alinement
azimuth adjustment knob
azimuth knob
azimuth of fire
azimuth scale

base deflection

cannoneer
cant't
collimator
command
cross hairs

deflection

elevation knob
emplace
emplaced

far post

gunner's aid

howitzer

laid

mount

near post
night lights
night lighting device

pantel
pitch

reticle
reticle pattern
reset counter

set
sight picture

MOS 13B

Task Number: 061-266-2224

Task: Boresight the panoramic telescope with the M140 alinement device

GENERAL

adjust
adjustment
after

before

centered
changed
check
completed
conduct
correct

depressing
device
disregard

equipped

indicate
installed
insure

level
leveled

minute

performing
proper

reading
remove
rotating

screwdriver

until

within

BASIC MILITARY

MIL

serviceable
step

task

unit

weapon

TECHNICAL

adjustment shaft
aline
aligned
alinement device
azimuth and elevation knobs
azimuth counter
boresight
boresight adjustment shaft
cover

comparison test
cross and longitudinal leve
bubbles
cross and longitudinal leve
vials
cross hairs

line of sight

panoramic telescope
pantel

shaft
sight picture

tube

MOS 13B

Task Number: 061-266-2229

Task: Set/lay the cannon for deflection

GENERAL

account for
accuracy
all
announced
appears
apply
appropriate

call
colored
complete
consistently
correct
correction

different
digits
direction

final

include
including
in order to

know

left
less
level
lights

make
marked
motion
must be

necessary

obtained

prior
procedures
proper

ready
release
right
rotate

seconds

take up
thumb
turning on

until

verify

within

BASIC MILITARY

MIL

series
sight

task

weapon

TECHNICAL

aiming post
azimuth knob

backlash

cannon
centered
collimator
command

deflection
deflection scale
disengage
displacement
distant aiming point

far aiming post
fired

gear mechanisms
gunner's aid knob
gunner's aid scale

laid
lay
lever

micrometer scale

near aiming post
night lighting device

pantel
pantel head
pantel mount
piece
piece displacement
play

quadrant

read back
reset counter dial

set
set off
setting off
shifts
sight mount
sight picture
sighting equipment
special corrections

Task Number: 061-266-2229

throwout lever
traverse
tube

vials

MOS 13B

Task Number: 061-266-2230

Task: Sight on a target during direct fire with the panoramic telescope

<u>GENERAL</u>	<u>TECHNICAL</u>	<u>TECHNICAL</u>
after	MIL	amount of lead
announced		azimuth counter
apply	series	azimuth knob
assistant	sight	azimuth scale
both	target	bubbles
center	weapon	center
centered		center of mass
changes		centered
continue		central laying
containing		clicks
correct		command
		cross level bubble
description		
during		depress
		dial
establish		direct/indirect fire bar
		direct fire
feel		elevate
		elevating handwheel
horizontal		elevation counter
		elevation indexes
insure		elevation level bubble
keep		fire
line		gunner
location		gunner's aid
		gunner's aid counter
man		
method		increment
		initial fire command
operating		laid
		lay
placing		lead
preferred		
proper		panoramic telescope
		pantel
relationship		pantel mount
relevel		
respond		quadrant
seconds		range
select		range line
sound		recenter
subsequent		relay
system		reticle
		reticle laying
turn		
		scale
until		set
using		sight picture
within		

Task Number: 061-266-2230

subsequent fire command

track
traverse
traversing handwheel
tube

verticle crosshair
verticle reticle

zero

MOS 13B

Task Number: 061-266-2231

Task: Refer the piece

GENERAL

accuracy
announce
appropriate

correct

direction
door

establish
exactly

general

identified
insure

level

moving

number

open
other

read
reading
report
rotate

seconds

turn

until
use

within
without

BASIC MILITARY

MIL

series
sights

weapon

TECHNICAL

aiming circle
aiming point
azimuth counter dial
azimuth knob
azimuth micrometer knob

bubbles

center

deflection
designated aiming point
disengage

head

night lighting device
nonslipping azimuth scale

panoramic telescope
pantel
piece
pitch and cross level bubble

refer
reticle

sight picture
sighting equipment

throwout lever
tube

verticle hairline
verticle reticle

MOS 13B

Task Number: 081-831-1001

Task Title: Perform mouth to mouth resuscitation

GENERAL

adults
airway
almost
any
apply
arms
as long as
assist
assistance
available
away
back
backward
becomes
begin
below
beneath
between
blades
blood
blows
brain
breath
breathing
broken
brought
but
causes
certain
checking
check
chest
children
circulation
clear
clothing
compressed
continue
correct
counts
covers
damage
deep
deliver
determine.
does
during
ear
effective
every
exaggerated
exhales

BASIC

abandon
adam's apple
airtight
alongside
aloud
artificial
bulges
cardiopulmonary
carotid artery
casualty
CPR
cycle
deprived
difference
dislodge
essentially
exchange
heel
IAW
inched
index
inflated
kneeling
maintain
manage
medic
mouth to mouth resuscitation
obstruction
pause
pinched
pliable
position
procedure
pulse
ratio
resistance
respiration
rotate
signal
victim
volume
vomit

TECHNICAL

backbone
breastbone
finger-width
oxygenated

NOS: 13B

TASK: 081-831-1004

TASK TITLE: APPLY FIRST AID MEASURES TO STOP BLEEDING

GENERAL

above
absense
additional
after
anything
applied
apply
areA
arm
around
arterial
artery
as soon as
attached
attempt
available
being
below
bleeding
bone
break
broken
can
careful
cahpter
check
clean
cloth
clothing
continues
cover
cut
dirty
elbos
elevation
ends
enough
enters
envelope
exits
facility
farther
feel
field
finger
firmly
first
aid
flexible
flow
folded
for

BASIC

arterial
artery
bandages
bayonet
bind
casualty
contamination
digital
dressings
flexible
forehead
frechure
last result
LAW
limb
loop
medic
missle
pad
personnel
pulse
rag
scabbard
scalp
securing
splinted
pl
spurt
square knot
standard
stick
temple
thigh
thumb
tourniquet
treatment
unwinding
wound

TECHNICAL

spurting

NOS: 13B

TASK: 081-831-1005

TASK TITLE: GIVE FIRST AID TO PREVENT SHOCK

GENERAL

BASIC

TECHNICAL

absence
actions
adequate
anxiety
any
appear
apply
artificial respiration
ask
as well as
back
because
below
better
blanket
bleeding
blocking
boots
breath
but
calm
clear
clothing
comfortably
conscious
controlling
determine
develop
especially
etc.
examine
except
exited
expect
explain
face
fast
feel
firm
first aid
fluid
followed
forward
fracture
gently
given

TASK: 081-831-1005

GENERAL

BASIC

TECHNICAL

have to
head
helping
however
identify
incorrect
increase
information
injury
insure
lean
likely
loosen
maintain
may
medical
neck
necessary
need
note
observing
other
performance
permits
person
personnel
physician
places
position
positioning
qualified
questions
raised
rapid
references
remains
remove
respiration
result from
self confidence
severe
shock
shoes
show
shows
side
signs
sit
skin
small

TASK: 081-831-1005

GENERAL

BASIC

TECHNICAL

soldier
splint fracture
suitable
task
than
thirst
tired
turned
unconscious
upper
vary
waist
warm
warning sign
weather
wet
worse
yet

MOS: 13B
TASK: 081-831-1006
TASK TITLE: SPLINT A SUSPECTED FRACTURE

GENERAL

across
against
already
anyway
applied
apply
as well as
attempt
available
below
bent
between
bleeding
blood vessel
bone
break
building
burning
changing
circulation
collect
cover
cutting
elbow
enemy fire
etc.
extend past
given
individual
injured
items
jacket
joint
life
material
medical
moving
muscle
must
necessary
nerves
pain
part
performed
person
personnel
pocket
points

BASIC

arm pits
bandages
bind
board
casualty
celan dressing
closed
field expedient splint
fractured part
grasp
IAW
immobilized
impaired
improvised
joint
leafy vegetation
lifesaving measure
medic
open fracture
overlying
padding
performance measure
personnel
poles
poncho
qualified
razor sharp edge
shelter half
sling
splint
splinted and
"splint them where they lie"
square knot
sticking through
sticks
tissue
tree limb
unloaded rifle

TECHNICAL

MOS:13B
TASK: 081-831-1006

GENERAL

BASIC

TECHNICAL

position
prevent
pull
qualified
reduce
reference
save
secure
several
should
skin
soldier
straighten-
such as
support
tie
under
unnatural
who
without .

NOS 19E

Task Number: 051-831-1007

Task Title: Armor crewman Give first-aid for burns

GENERAL

as soon as possible
attempt
available
blisters
cause
chemicals
clean
cloth
clothing
cover
do not
electricity
explosives
fire
in any way
large amounts of
lasers
nauseated
neck
pieces
pour
stomach
stuck to
sun
unconscious
unless
vomiting

BASIC

as described
burns
evacuate
first aid care
medical help
treatment
wounded

TECHNICAL

burn area
individual first aid
medications
ointments
sterile dressing

MOS: 13B
TASK: 081-831-1008
TASK TITLE: GIVE FIRST AID FOR HEAT INJURIES

GENERAL

about
according to
after
amount
area
arms
as
body
but
can
canteen
caution
clothing
cold
cool
cramps
day
described
dizziness
do
drink
earlier
equipment
especially
exhaustion
fan
feet
first aid
fuel
get
give
given
half
have
headache
sick
signs
skin
slowly
soldier
source
stomach
sweating
symptoms
table

BASIC

canteen
heat cramps
heat exhaustion
performance measure
performance standards
rations

TECHNICAL

MOS: 13B 081-831

TASK: 1008

TASK TITLE: GIVE FIRST AID FOR HEAT INJURIES

GENERAL

about
according to
after
amount
area
arms
as
body
but
can
canteen
caution
clothing
cold
cool
cramps
day
described
dizziness
do
drink
earlier
equipment
especially
exhaustion
fan
feet
first aid
fuel
get
give
given
half
have
headache
heat
heat stroke
him
hot
identify
if
inches
include
increase
injury
instruct
keep
least
legs
lie
loosen

BASIC

canteen
heat cramps
heat exhaustion
perfect conditions
perfect measure
perfect standards
rations

TECHNICAL

NONE

MOS: 13B 081-831

TASK: 1008

TASK TITLE: GIVE FIRST AID FOR HEAT INJURIES

GENERAL

BASIC

TECHNICAL

lower
may
medical help
mental confusion
mix
moist
move
muscle
nausea
not
over
possible
pour
put
quicily
raise
remove
required
salt
sick
signs
skin
slowly
soldier
source
stomach
sweating
symptoms
table
tablet
teaspoon
touch (n)
unconsciousness
unless
usually
water
weakness
while

NONE

NONE

TASK: 081-831-1008

tablet
teaspoon
touch (n)
unconsciousness
unless
usually
water
weakness
while

MOS: 13B

TASK: 081-83-1011

TASK TITLE: GIVE FIRST AID TO A NERVE AGENT CASUALTY

GENERAL

activated
appearance
artificial respiration
bend
breathing
collar
couple
cramps
device
difficulty
dizziness
drooling
drug
enters
equipment
excessive
exposed
eye pupil
firmly
first aid
functions
give
headache
hold
individual
injection
joking
labeled
massage
muscle
nausea
needle
nose
outer
pinpoint
pocket
press
recognize
required
saliva
secure
seek
set aside
sites
soldier
staggering
symptoms
thigh
twitching
worse

BASIC

activated injector
antidote injectors
casualty
combo pen
decontaminate
decontamination
mask carrier
nerve agent
safety cap

TECHNICAL

MOS: 13R

TASK: GS1-831-1012

TASK TITLE: GIVE FIRST AID TO A BLISTER-AGENT CASUALTY

GENERAL

able to
at the time of
attached
away from
clothing
colorless
cover
dark brown
eyelid.
fingers
(to) form
have him pull
have to
if necessary
instant paint
keep eye open
loose
make sure
oily liquid
one-third
on-contact
pain
pure
run onto
should be
so (that)
tell

BASIC

administer self-aid
as described
bandages
canteens
casualty
clear
equipment
first-aid project
give first aid
helmet
inhibital defense
protective clothing
protective gloves
protective hood
protective mask
put on
raise his mask
resent
secure
secure the dressing
to mask
unscrew the cap

TECHNICAL

blister-agent
blisters develop
break blister
chemical environment
contaminated
decontaminate
exposed
flush
hold it
inflamed
mustard
M13 decontamination kit
M285 decontamination kit
recognize presence
seek medical attention
sterile dressing
take a dry breath
tilt...head back
to the left
to the right
unaffected
upon exposure to

MCS: 13B

TASK: 081-831-1013

TASK TITLE: GIVE FIRST AID TO A BLOOD AGENT CASUALTY

GENERAL

antidote
appear
area
artificial
blood
box
check
clothing
color (n)
crush
defense
described
dizziness
equipment
exposure
fingernails
headache
help
include
individual
injured
intervals
irritated eyes
medical
mouth-to-mouth resuscitation
normally
nose
open
pink
poisoning
presence
present
purple
put
quickly
red
required
respiration
seal
sealed
skin
soldier
steps
symptoms
temple
total
weak
wearing

BASIC

armlift method
back-pressure
blood agent
mask
protective mask

TECHNICAL

ampules
amyl
area
carrier
eyelens
mask
nitrate
strap
temple

NOS: 13B

TASK: 081-831-1014

TASK TITLE: APPLY MASK-TO-MOUTH RESUSCITATION TO A CHEMICAL-AGENT CASUALTY

GENERAL

all over
as long as
assist
as the result of
backward
begin
be sure
blanket
blow
breathe
breathe out
breathe regularly
built up
chest
chin up
completely
contact
continue
dirt
expand
false teeth
fits
fold back
forceful
harder
have him clear
higher
hold
hook (v)
index finger
keep his jaw up
kneel
leak...in place
leak proof
lift up
light
lower
lungs
make sure
material
mouth
noisy
once every...seconds
on his own
pinch nose closed
place
position
press inward
pull....out and up

BASIC

air outlet valve
apply
breathing tube
casualty
check for
complete
contaminated area
contaminated surface
disconnect
exhales
exposed
heartbeat
inhales
insert
medically trained
neutral position
on his back
place
poncho
prepare
properly
pulse
raising
release
remove
resuscitation
start
stow...in carrier
unconscious
voicemitter cover
wipe clean

TECHNICAL

chemical agent
flanged edge
indented portion
mask-to-mouth
M1 resuscitation tube
unflanged edge
valve needle

MOS: 13B

TASK: 081-831-1014

GENERAL

BASIC

TECHNICAL

quick
quickly
regularly
release
relieved
rises
seal
seal....in place
something similar
spring back
surface
take from
take off
take...out of
teeth
thumb
too exhausted
toward
turn
upper lip
upper push
watch
well under
without error
without help

DS: 13B

ASK: 031-503-1014

ASK TITLE: IDENTIFY A CHEMICAL AGENT USING ABC-M8 DETECTOR PAPER

GENERAL

allow
contact
continue
detect
determine
field
findings
found
identify
inform
information
means
minute
necessarily
normally
note
physically
presence
safe
soldier
substance
suitable
sufficient
supervision
tear out
try to match
using
within
trapping

BASIC

chemical agent
color chart
color reaction
contact
environment
garrison
indicator
NBC NCO
performance measures
suspected agent
trainer

TECHNICAL

ABC-M8 detector paper
battalion level
blister
individual combat equipment
inside cover
masked
nerve
protective mask carrier
unknown liquid stimulant
unmask

MOS: 43B

TASK: 081-831-1015

TASK TITLE: GIVE BACK-PRESSURE ARM-LIFT ARTIFICIAL RESUSCITATION TO A CHEMICAL AGENT CASUALTY

GENERAL

above
agent
airways
almost
answers (v)
area
armpits
artificial
assistance
avoid (v)
back (n)
below
blood
breathing
call (v)
check (v)
chest
clear (v)
complete
contaminated
cycle
debris
determine (v)
directly
dirt
downward
elbows
every
exhausted
extended (v)
face (n)
facial
fails (v)
fall (n)
false
feel (v)
fingers first aid
forward
grab
ground
hands
head
help
in accordance with

BASIC

mask-to-mouth
poncho

TECHNICAL

TASK: 081-831-1015

GENERAL

BASIC

TECHNICAL

in order to
injury
insure
just
kneel
mask
material
medically
mouth
mucus
neck
needed
non-contaminated
not
O.K.
outward
personnel
poisoning
pressing
push
put
rate
release
relieved
removing
resear
respiration
resuscitation
rise
rock
seconds
shake
shoulder
shoulder blades
shout
side
soldier
steps
stomach
stop
straight
teeth
thumbs
touching
towards
trained
unconscious
until
upper
use
vomit
watch
wrapped

WOS: 13B

TASK: 031-503-1001

TASK TITLE: PERFORM OPERATORS MAINTENANCE ON AN M17-SERIES PROTECTIVE MASK

GENERAL

adjust
allows
any more
below
break down
conflict
corresponding hold
damage
exchange
exhaled
exists
fall into position
front
grasp
hold
insert
just enough
lies on top
measures
obtain
outlined
outward
pull
push up
reserve
slip
stretch
work
work into plan

BASIC

adjust
aline
allow
a pair of
cheek pouches
chemical agent
clear the mask
bottom edge
break down
correspondence
curved edge
damaged
distortion
exchange
exhaled
exposed
fall into position
immersed
flap button
function check
grasp
hold
IAW
inlet valves
insert
in the same manner
lenses
lies on top
like manner
long inner button
moist
nose cup
notify
obtain
other hand
out lines
outside control
replacement
pad
place under
pull
push up
pushing up
recheck
reverse
rubber
seal
short outer button
slight turning motion
slow
square corner
stretch
toxic
unbutton

TECHNICAL

button
chin stop
facepiece
hole
inlet valves
wearer
work collar
work into place

NOS: 13B
TASK: G31-503-1002

TASK TITLE: PUT ON AND WEAR A PROTECTIVE MASK .

GENERAL

afterward
chin
collapse
consecutive
designed
difficulty
edges
face
fullest
leaks
palm
put on
secure
situation
standard
s d
thumbs
upon becoming aware
warming
wear
work up to

BASIC

agent
air-tight seal
blowing hard
bulges
carrier
centered
chemical biological attack
chin pocket
clear
clear your mask
combat gear
contaminated
decontaminate
designed
drawstring
eyepiece
exposed
familiarize
field
fullest extent
garrison
hand over
head gear
in accordance with
initially
masked
muzzle
over the head
palms of the hands
prefitted
pressing out
seat your mask
shoulders
situation
sliding
smooth
sound the alarm
standard alarm
thumb
underarm straps
upward and backward motion
velcro patches
warning
within
zipping

TECHNICAL

agent
carrier
CS gas
face piece
headgear
M17 series
M17A1
mask
NBC attack
protective mask
voicemitter assembly

MOS:

TASK : 031-503-1003

TASK TITLE: STORE PROTECTIVE MASK WITH HOOD IN CARRIER

GENERAL

allow
enclosed
finger
fold
hang over
hanging position
hold in place
left side
remaining
snap shut
the fold
upward

BASIC

carrier
folded hood
grasp opening
hood
insert
opening
protective mask
stored

TECHNICAL

eyelens
faceplate
facing up and out
head harness
hood strap
zipper

MOS:

TASK: 031-503-1004

TASK TITLE: RECOGNIZE AND PROTECT SELF AGAINST A NUCLEAR HAZARD

GENERAL

all
back of neck
between
close...eyes
cover
culverts
deep
deep covered
debris
directly on the ground
ditches
drop down
excellent
exposed
face down
fair protection
fall
forms
forward
great amount
ground
have a choice
head
hills
immediately
imminent
inside
in the opposite direction
it takes
jumping into a ditch
notify
passes over
portions
presence
produces
quickly
recognize
recognized
skin
steps
subjected
sudden
taking two steps

BASIC

armored vehicle
best available
damage
detonation
encounters
equipment
falling to the ground
following the
foxholes
helmet on
inform
injury
marker
protecting yourself
remain down
serious injury
supervisor
sustain
weapons
warning

TECHNICAL

blast
blast wave
contamination marker
heat
initial effects
lights
mushroom shaped cloud
nuclear attack
nuclear burst
nuclear detonation
radiological
standard NATO

MOS: 13B
TASK: 031-503-M005
TASK TITLE: RECOGNIZE AND PROTECT SELF AGAINST A NUCLEAR HAZARD

GENERAL

area
available
buildings
clothing
crossing
debris
established
fastened
make sure
puddles
requires
safely
shrubbery
up
surface
tall grass
tend
woods

BASIC

agents
avoid contact
closures
commander
continuously
equipment
high ground
level
mission
operational aspects
permit
protective
radiological defense
routes
sandbags
shielding
standard
super user
vehicle

TECHNICAL

ABC-M8 detector paper
agent alarm
automatic chemical alarm
buttoned-up mode
contaminate
contamination
decontaminates
detection equipment
dosimeter
guidance
IM-174
mission-oriented protective
posture
NBC defense
operational exposure guidance
radiometer
reading

NOS:

TASK: 031-503-1006

TASK TITLE: GIVE VOCAL, VISUAL AND OR SOUND ALARMS FOR CHEMICAL OR BIOLOGICAL ATTACK

GENERAL

appropriate
both
clanging
conditions
correctly
cup
determine
doubled
enviornment
expected
extend
facing up
horizontal
individual
local
l
metal
moves
noise
position
produce
rapidly
side ways
strike
visual
vocal
yell

BASIC

alarm
attack
bayonet
biological
chemical
combat
equipment
exposed
field
fist
helmet
masked
message
signal

TECHNICAL

MOS:
TASK: 031-503-1007
TASK TITLE: DECONTAMINATE SELF

GENERAL

a piece of
across
allow
already
at first
attached
blot
blunt edge
bottom
break
carried on
close your eyes
dispose of
ear
e
entire
everything
face
far enough
from exposure to
grasp
hard
liquid
lower portion
make
mask
marked
material
near
normally
no
no, already on
one
open
passage through
permits
properly
puncture
pull away
punch a hold
quick
rim
shake hard
side
situation
skin
so that
soak up

BASIC

check
chin portion
clear
direct chemical attack
dispose of
extract
properly removed
protective clothing
protective mask carrier
put on
replace
seek cover

TECHNICAL

chemically contaminated area
contamination
decontamination kits
fuller's earth pad
M13,M250
NBC
skin pad
standard NBC protective equip.

MOS:

TASK: C31-503-1008

TASK TITLE: DECONTAMINATE INDIVIDUAL EQUIPMENT

GENERAL

actual
area
bag
blotting
charcoal
chemical
contaminated
crushing
dusting
dye
equipment
exposed
extent
exterior
extract
simulated
sopping
spread
thoroughly
turning
indicate
inner
inspecting
kit
level
liner
neutralize
mix
noting
pad
present
protective
provided
remove
rubbing

BASIC

agent
attack
carrier
mask
overgarment

TECHNICAL

capsule
cutter
decontaminate
detector
earth
fullers
pad
reimpregnating

60

NOS: 13B

TASK: 031-503-1011

TASK TITLE: PERFORM OPERATORS MAINTENANCE ON AN M24, M25, OR M25A1 PROTECTIVE MASK

GENERAL

additional
adjust
alarm
check
collapsed
clear
containing
disconnect
don
duties
edges
escapes
fit
flap
freezing
harness
leaks
lens
lie
lungs
matter
order
prefilled
pressure
properly
protective
recepticle
relieve
rotate
seal
seal
secure
shoulder
slip
signal
size
snap
snug
surprise
temperatures
temple
thumbs
tight
underarm
upturned
valve
vehicle
warning
wearing
worn
zip

BASIC

action
combat
crewman
drawstrings
facepiece
headgear
helmet
helmet shell
hood
mask carrier
neck cord
operations
straps
vehicle

TECHNICAL

attack
boom
canister
coupling
eyelens
filter
inlet
microphone
NBC
unit

61

MOS:

TASK: 031-503-1012

TASK TITLE: PUT ON AND WEAR AN M24,M25 OR M25A1 PROTECTIVE MASK

GENERAL

additional
adjust
alarm
check
collapsed
clear
containing
disconnect
don
duties
edges
escapes
fit
flap
freezing
harness
leaks
lens
lie
lungs
matter
order
prefilled
pressure
properly
protective
recepticle
relieve
seal
seal
secure
shoulder
slip
signal
size
snap
snug
surprise
temperatures
temple
thumbs
tight
underarm
upturned
valve
vehicle
warning
wearing
worn

BASIC

action
combat
crewman
drawstrings
facepiece
headgear
helmet
helmet shell
hood
mask carrier
neck cord
operations
straps
vehicle

TECHNICAL

attack
boom
canister
coupling
eyelens
filter
inlet
microphone
NBC
unit

62

MOS:

TASK: 092-503-1014.

TASK TITLE: IDENTIFY A CHEMICAL AGENT USING ABC-M8 DETECTOR PAPER

GENERAL

allow
contact
continue
detect
determine
field
findings
found
identify
inform
liquid form
means
note
necessarily
normally
note
physically
presence
safe
soldier
substance
suitable
sufficient
supervision
wear out
try to match
using
wearing
in
wrapping

BASIC

chemical agent
color chart
color reaction
contact
environment
garrison
indicator
NBC NCO
performance measures
suspected agent
trainer

TECHNICAL

ABC-M8 detector paper
battalion level
blister
individual combat equipment
inside cover
masked
nerve
protective mask carrier
unknown liquid stimulant
unmask

IOS:

ASK: 031-503-1015

ASK TITLE: PUT ON AND WEAR PROTECTIVE CLOTHING

GENERAL

at least
belt
belt loops
button
buttonhole
clothing
cover
dressing
g
either...or
exposed
fit over
gloves
hours
inside
is worn
leaves
new
note
on clothes
pair
properly
pull over
remove
right v/s left
same
shirt tail
skin
snugly
socks
top
upper portion

BASIC

attach...through
blouse over boots
boots
boot socks
fastened
fastener
in field
in bloused over
issued
lace
perform
performing...duties
primary duties
protective clothing
pull the cuff
replace
tie firmly
trouser cuffs
tuck
unassisted
zip legs
zip up

TECHNICAL

chemical
chemical protective equipment
closures
gas flap button
impregnated socks
knitted cuffs
left
outer trouser
overgarment shirt
protective gloves
protective liner ensemble
protective overboots
protective socks
shirt liner
sock donning
trouser liner

Mos 13B
Task # 113-587-2018

Operate vehicle intercommunications set AN/VIC-1

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
apply	checks checks	accent
connect (v)	elements (n)	accessories
distinctively	headset	audio
establish (v)	helmet	crew
installed	services	input
insure (v)		line
intercommunications		listening
microphone		monitor
operate		military
position (v)		silence
power		telepost
proper		terminal
switches		volume
transmit (v)		
turn off		
vehicle		

MILITARY?

MOS: 13B
TASK: 113-600-1001
TASK TITLE: INSTALL TELEPHONE SET TA-312/PT

GENERAL

adjust
assistance
conduct
enviornment
in accordance with
install
installation
performed
pole
position
preinstalled
provide
remove
ringing
secure
select
set
submit
supervision
switchboard
transmission
verbal

BASIC

chief
NBC
nontactical
task
team

TECHNICAL

binding
cable
deicing
post
screen

66

MOS: 13B

TASK: 113-500-2001

TASK TITLE: OPERATE TELEPHONE SET TA-312/PT

GENERAL

appropriate
buzzer
incoming
initiate
insure
operate
position
position
provide
range
rapidly
release
replace
retaining
seated
set
switch
terminated

BASIC

cradle
handcrank
handset
headset
NBC
nontactical
tactical

TECHNICAL

MOS: 13B

TASK: 113-600-3001

TASK TITLE: PERFORM OPERATOR PREVENTIVE MAINTENANCE ON TELEPHONE SET TA-312/PT

GENERAL

assistance
available
avoid
case
cords
daily
environment
errors
flame
in accordance with
initially
inspect
maintenance
operator
panels
perform
press
prolonged
provide
re/installed
serviceability
sit
spills
ventilation
warning

BASIC

chief
nontactical
services
standby
tactical
task
team
thru

TECHNICAL

buzzer
control
cradle
deicing
faults
foreign
hardset
hook
latch
leakage
matter
NBC
post
retaining
screen
situation
springs
switch
volume

Mos 13B
Task #113-588-3011

Perform operator maintenance on communication wire

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
allowing	actions (n)	breaks (n)
assistance		
assistants	troubleshooting	circuit crushed
connect		
communication		defective dirty
damaged		
electrical		field friction
examine		
holes		handcrank
inspection		insulating insulation
knot		pliers
maintenance		reels
operator		re/splice section sections sets spools
pass (v)		tape (v)
perform		wire
protrude		
rags		
secure		
seize		
staggered		
tape (v)		
techniques		
tie		
wire		
wound		

MOS 13B

Task Number: 071-329-7016

Task Title: Determine azimuth using an M2 compass

GENERAL

adjust
aline
angle
approximately
arm
vised
black
body
brace
center
correctly
cover
desired
determine
elevation
end
exact
eye
face
float
fold
freely
hand
hold
level
location
lower
measure
measurement
method
mirror
needle
non metallic
object
opening
parallel
perpendicular
place
position
precise
raise
read
stake
tip

BASIC

azimuth
black center-line
bubble
circular level
compass
declinate
front sight
grid azimuth
MIL
rear sight
rear sight holder
scale
sight
target

TECHNICAL

MOS: 13B

TASK: 071-329-1007

TASK TITLE: DETERMINE DISTANCE WHILE MOVING BETWEEN TWO POINTS ON THE GROUND

GENERAL

BASIC

TECHNICAL

accurately
actual
average
beware
certain
check
circle
count
course
cross country
daylight hours
determine
distance
end zone
figure
finish point
foot
Football field
ground
guide
hill
kilometer
knot
landmark
left
length
level
line
maintain
map
maximum
measure
meter
method
minute
move
multiply
night
number
obstacle
pace
pebble
pocket
point

aiming point
black grid line
compass
field
pace fraction conver-
sion table

AD-A121 098

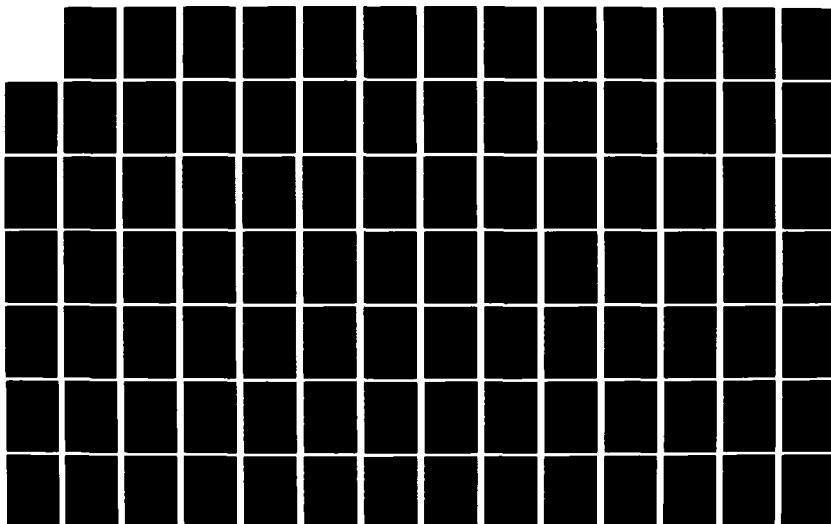
JOB LANGUAGE PERFORMANCE REQUIREMENTS FOR MOS 13B
CANNON CREWMAN VOLUME I & II(U) DEFENSE LANGUAGE INST
LACKLAND AFB TX ENGLISH LANGUAGE CENTER OCT 82

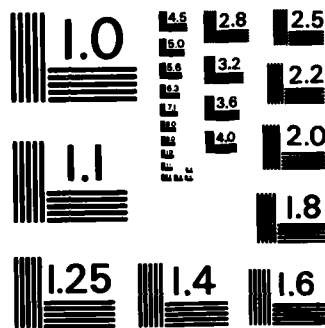
3/4

UNCLASSIFIED

F/G 5/9

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

TASK: 071-329-1007

practice
problem
remain
remainder
right
start point
straight
string
terrain
travel
types
varying
walk
weather
yard

MOS 13B

Task Number: 071-329-1001

Task Title: Terrain features (natural and manmade) on the map

GENERAL

about
across
along
already
also
always
away from
base
before
below
beyond
black
blue
book
brown
check
classify
close
closed
colors
come
directions
distances
each
easiest
elevation
examples
fairly
features
finding
going
ground
higher
hills
identified
identify
important
information
intend
know
lakes
last
later
learn
locating
long
lower
main roads
majority
manmade
map
marked
measuring

BASIC

azimuth
built
classes
contour lines
cultural
depression
enemy
figure-eight
hill top
hour glass-shaped
legend
marginal information
military
orchards
relief
ridge
saddle
scale
slopes
swamps
terrain
tick marks
U-shaped
upstream
V-shaped
valley
vegetation
vineyards
western saddle

TECHNICAL

74

MOS 13B (CONT.)

GENERAL

minutes
more
narrow
natural
occasionally
opposing
ordinary
other
picture
piece
point
pointing
points
red
right
rivers
save
should
shows
sometimes
something
special
standard
standing
start
stream
supervisor
through
together
tops
toward
travel
trouble
type
use
water
which
within
words

74

MOS 13B

Task Number: 071-329-1002

Task Title: Determine the grid coordinates of a point on a military map using the military grid reference system

GENERAL

ability
about
accurately
add
address
along
angles
another
area
between
black
borders
bottom
called
certain
check
clear
corner
correct
crosswise
determine
device
digit
distances
dot
east
edge
estimate
estimating
example
exactly
extra
find
form
general
get
give
half
halfway
help
improve
inside
instead of
keep
know
know how
labeled
left
lefthand
letter
little

BASIC

alternate
boonies
bottom coordinate scale
combat
coordinate scales
coordinate
grid coordinates
grid reference system
grid coordinate scale
grid scale
grid
graphic training
grid reference box
horizontal grid
horizontal coordinate scale
imaginary
military
meter square identifier
map picture
MIL
margin
north-south gridline
protractor
plotted

TECHNICAL

MOS 13B

Task Number: 071- 34y-1025

Task Title: ORIENT A MAP USING A DECLINATED M2 COMPASS

GENERAL

BASIC

TECHNICAL

ability
 alternate
 angle
 apparent
 block
 compass
 conditions
 connect with
 consisting of
 continuous line
 daylight conditions
 degree
 dial
 directions
 end
 equal
 falls beneath
 formed by
 forward
 given
 ground
 horizontal position
 left
 limit
 line up (v)
 location
 map
 margin
 match
 minute
 needle
 open
 parallel to
 place (n)
 pointing
 position
 quite apparent
 reference
 rotate
 shown
 suitable
 test
 time
 to the ground
 top of
 toward
 using
 within

aline
 compass
 declinated compass
 in the field
 MILS
 north - south grid lines
 orient
 scale

MOS 13B

Task Number: 071-329-7012

Task Title: Orient a map to the ground by map terrain association

GENERAL

both
common to
conditions
daylight
depressions
east
features
find
good
ground
hard to do
have got to
hilltops
important
locate
look at
many good ways
map
minute
north
point
position
ridges
same way
south
such as
thing
use
valleys
viewed from
ways
west
within

BASIC

alining
alining features
depression
field site
hilltop
linear features
map-terrain association
military
military map
MILS
orient
orient (v)
ridges
saddles
scale
standard 1: 50,000 scale
valleys
within 30° in ten
minutes

TECHNICAL

align
aline
bar
bar scale
contour interval
curved line distance
distance-road ground
distant - ground; curved line;
road; straight line
garrison
graphic scale
grid square
ground distance
in the field
meters apart
pivot
plotted
points on a map
right up
road distance
road junction
scale
standard 1: 50,000 scale
supplementary contours
tick mark
trail
topographic map
zero

MOS 11B

Task Number: 071-329-1005

Task Title: Determine a location on the ground by terrain association

GENERAL

area
daylight
determine
directions
during
east
given
ground
hours
known
located
map
meters
north
on which
point
requirement
shown
south
surround
type
those shown
unknown
while
within

BASIC

cardinal
coincide
coordinate - location;
scale/map;
grid
field
grid coordinates
military
orient
protractor
relate
scale
terrain - features;
association

TECHNICAL

association-terrain
coincide
coordinate location scale
directions
four cardinal directions
known point
meters
military map
orient (v)
performance measure
protractor
six - digit map coordinate
standard 1: 50,000 scale
terrain association
types of terrain features
unknown location

GENERAL

line
locate
location
lost
map
make
measure
meters
minutes
more
name
neighborhood
number
outside
paper
pencil
picture
piece
place
(plastic
point
preceded
pretend
read
represented by
right
righthand .
running up and down
same
see
short
slide
small
smaller
(somewhere
south
southwest
spot
square
standard
start
suppose
thin
training
untill
up
use
worry
write .

13B

Task Number: 071-329-1004

Task Title: Determine the elevation of a point on the ground using a map

GENERAL

above
accuracy
add
already
amount
around
as needed
at least
between
bottom of
brown
can
climb
close together
desired
detail
determine
difference
direction
distance
down
down hill
each
easy climb
elevation
estimate
exactly
feet
find
flat
following
for
from
gentle
ground
half
heavier than
height
higher
highest
hill
how
indicate
information
known
less than
like
lines
locate
lower
map
minutes

BASIC

ability
above sea level
assistance
bench marks
brown lines
contour interval
contour lines
coordinate
correct
cross (v)
depression (n)
designated point
detail
eight digit coordinate
elevation
failure
field
garrison
gentle slope
highest above sea level
identify
index contour line
interval
known elevation
locate
margin
marginal information
military
point of plotted
reference
relief
result
sea level
scale
slope
spot elevation
standard 1: 50,000 scale
supplementary

TECHNICAL

contour
cross (v)
determine
elevation
estimate
features
GA
grid coordinates
interval
marginal
measure
protractor
relief
sheet 4550 IV
sought
symbol
terrain
unit

MJS 13B

Task Number: 071-329-7009

Task Title: Concert Azimuth (magnetic or grid)

GENERAL

about
add
aim
annual
between
bottom
called
change
current
date
determine
diagram
difference
distant
east
elapsed
error
every
examine
example
few
getting
keep from
lines
lost
map
minutes
multiply
needle
neither
north
numbers
pencil
points
reading
result
sheet
shown
since
south
standard
straight
subtract
usually
value
west
within
without
worry
years

BASIC

combat area
compass
given
military map
MILs
scale
update

TECHNICAL

azimuth
convert
declination diagram
easterly
grid azimuth
grid-magnetic angle
grid north
magnetic azimuth
magnetic north
north pole
tower
true north
westerly

MOS 13B

Task Number: 071-329-1024

Task Title: Measure an azimuth with a protractor

GENERAL

assistance
ability
accurate
between
connecting
cross
degree
draw
errors
flat
figure
insure
keeping
line
location
measure/ing
sap
minutes
nearer
pencil
place
point
prevent
perform
record
reference
read
straight line
side
shows
test
under
value
within

BASIC

azimuth
aline
degree graduated
FM
grid azimuth
index
in the field
MILS
north-south
protractor
plotted
scale
semic-circular MIL
TEC lesson
vertical grid line

TECHNICAL

azimuth
align
grid azimuth
index of protractor
protractor
protractor degree line
scale
specified point
vertical point
value of angle

MOS 13B

Task Number: 071-329-1008

Task Title: Measure distance on a map

GENERAL

BASIC

TECHNICAL

ability (n)
add this value
allows (v)
already (adv).
always (adv)
another (pro)
apart (adj)
approximate (adj)
around (prep)
between (prep)
bottom
certain (adj)
chalkboard (n)
changes (pn)
chart (n)
come (v)
consensus
determine
different (adj)
direction (n)
distance (n)
drawn
earth (n)
edge (n)
equals (v)
falls within
far (adv)
final (adj)
find (v)
goes off
greater than
ground (n)
hits (v)
how far
in fact
identify (v)
inch (n)
just under
keep
least (adj super)
line
line up (verb comb)
locate
make (v)
map (n)
mark (n)
means
measure (pn)
meters (pn)
miles
minutes (pn)
near (adv)
new

87

MOS 13B

Task Number: 071-329-1006

Task Title: Navigate from one position on the ground to another point

GENERAL

BASIC

TECHNICAL

after
against
along
another
apart
appear
between
begin
blank
check
conditions
conduct
confirm
contain
designated
detailed
determine
distance
factor
features
finish
fixed
ground
hour
limiting
list
locate
location
make
making
map
meters
move
moving
place
planning
point
position
reaching
select
standard
start
such
types
under
varying
weather
where
while
within

azimuth
compass
convert
coordinate scale
encountered
field location
grid azimuth
index line
magnetic azimuth
mental checklist
military
navigate
pace count
protractor
reconnaissance
route
scale
task
terrain
terrain analysis

84

MOS 13B

Task Number: 071-329-1023

Task Title: Determine an unknown point on a map by resection

GENERAL

another
black
complete
digits
draw
end
from
insure
intersection
line
location
map
measured
meters
minutes
nearest
needle
open
other
passes through
pin
place
read
record
reported
suspected
territory
to
using
within

BASIC

azimuth
declinated M2 compass
easting
enemy
grid azimuth
grid location
grid reference
known location
known point
NILs
northing
plot
plotting equipment
protractor
resection
scale
sight
unknown point

TECHNICAL

13B

TASK: 071-326-5703

TASK TITLE: CONDUCT INDIVIDUAL FIGHTING POSITIONS

GENERAL

aerial
approached
approaching
approximately
before
blend
cleaned
completion
construct
continually
darkness
destroyed
detect
dirt
discolor
driving
earth
excess
expose
fouls
given
ground
hidden
improved
inches
leaving
light
littered
log
meters
noise
normally
observes
overhead
preparation
position
protection
provide
rear
removal
replaced
requires
soil
specific
traces
unnecessary

BASIC

bayonet
camouflage
camouflage materials as available
entrenching tools
expedient materials
field equipment
individual defense
natural camouflage
poncho
scabbard
sector of fire

TECHNICAL

NOS: 13B

TASK: 051-202-1001

TASK TITLE: COMOUFLAGE/CONCEAL SELF AND INDIVIDUAL EQUIPMENT

GENERAL

accessories
add
altered
appear to be
appropriate
applying
areas
as follows
blend
cause
check
cheekbone
chin
closely resemble
complete
curved shape
dark color
daylight
during
easily identified
eyes
forehead
given
light color
little imagination
mattress
mixture
nose
part of background
several ways
shade
shadow
sheet
shiny area
snow covered
within
worn
wrapping

BASIC

attract enemy attention
background
break up
burlap
camouflage
charcoal
cloth
conceal self
dyed
equipment
exposed
guide
improvised cover
individual
irregular
issued
interference
live vegetation
mud
natural oil
outlines
paint stick
pattern
predominant
reflect light
sandbag
skin
snowsuit
strained
striking feature
strips
uniform
weapon

TECHNICAL

buddy system
burnt cloth
crankcase oil
desert dry area
disruptive paint pattern
expedient bands
firing
garnishing
helmet
insertion
LBE
load bearing equipment
loam light green
mud and grease
old inner tube
residue
rubber bands
sand light green
sighted
slits
snow covered green
strained
terrain
vegetated region

MOS 13B

Task Number: 071-331-0801

Task Title: Use challenge and password

GENERAL

advance
allow
answer
approach
ask
attempt
capture
clear
command
correct
covered
corrent
demand
designated
detain
detect
doubt
enter
expose
friendly
further
group
halt
hear
identification
idenfify
immediate
leader
maintain
man
messenger
meter
nearby
notify
overhear
pass
permission
person
pose
precautions
procedure
question
reason
reply
respond
satisfied
see
soft
someone
stranger
superior
threat
use
voice

BASIC

challenge
defense position
disarm
enemy
friendly personnel
password
patrol
personnel
position
sector
sector of fire
soldier
weapon

TECHNICAL

MOS: 13B

TASK: 071-312-3007

TASK TITLE: PREPARE A RANGE CARD FOR AN M60 MACHINE GUN

GENERAL

action
applicable
appropriate
area
assign
assigned
bar
base
block
break
card
center
column
components
compute
connect
conserved
containing
dangerous
data
date
daylight
depress
depth
description
designated
determine
dig in
digit
direction
distance
draw
drop
elevation
enter
entry
exact
extreme
facilitate
feature
fog
following
forward
ground
guidance
identify
immediately
include
indicator
individual

BASIC

aim
aiming stake
aline
automatic weapon
avenue of approach
azimuth
back azimuth
babbed line
barrel
basic symbol
company
company commander
c-ration boxtop
data section
dead space
defensive
elevating bar
elevating handwheel
elevating mechanism
elevating scale
elevation
emplace
enemy
field expediant
fighting position
final protective line
fire
fire planning
firing platform
forward edge of the
battle area
friendly position
friendly troops
graze
grid coordinate
gun
gun position
handwheel
lay
lensatic compass
line of sight
linear target
machine gun
magnetic azimuth
magnetic north
magnetic north arrow
map coordinate
marginal data
marginal data box
mil

TECHNICAL

NONE

MOS: 13B

TASK: 071-312-3007

TASK TITLE: PREPARE A RANGE CARD FOR AN M60 MACHINE GUN

GENERAL

label
left
leg
level
likely
limit
limited
locate
location
lock
manmade
maximum
meter
natural
night
number
object
paper
pencil
period
permit
place
point
position
preliminary
prepare
preprinted
priority
prominent
properly
provide
range
read
reading
recognizable
reflect
remark
remarks
respond
reverse
right
rough
separate
shape
situation
sketch
slash
smoke
specify
strike
top
upper

BASIC

military symbol
orient
oriented
pace
parapet
platoon
platoon leader
position
primary sector of fire
principal direction office
range card
range sketch
relief in place
relieving gunner
round
sandbag
secondary sector of fire
sketch section
squad
target
terrain feature
traverse
traversing bar
traversing mechanism
traversing slide
tripod
tripod-mounted
unit designation

TECHNICAL

NONE

MOS: 13B

TASK: 071-312-3007

TASK TITLE: PREPARE A RANGE CARD FOR AN M60 MACHINE GUN

GENERAL

value
visibility
visible
width
work

BASIC

NONE

TECHNICAL

NONE

MOS 13B

Task Number: 071-331-0802

Task Title: Process known or suspected enemy personnel

GENERAL

abuse
allow
capture
cigarette
circumstance
civilian
collection
complete
date
dead
designate
destroy
document
element
escape
essential
equipment
female
food
format
general
group
harm
identify
individual
keep
known
leader
materials
meter
minute
obtain
personal
personnel
place
plan
point
prevent
print
process
property
rear
receipt
remove
resistance
rule
safeguard
safety
search
segregate
silence
speed

BASIC

battlefield
bayonet
combat
deserter
enemy
friendly
grid coordinate
I.D. paper
identification
indoctrination
interrogator
mass escape
military document
non-commissioned officer
officer
pistol
political
prisoner
prisoner of war
private
protective mask
reference from known point
security minded
soldier
unit
unit ID
unit identification
weapon

TECHNICAL

MOS 13B (CONT.)

GENERAL

surrender
suspected
tag
talk
time
water
welfare
written

MOS 13B

Task Number: 071-331-0001

Task Title: Move as a member of a patrol

GENERAL

absence
action
alert
appropriately
area
attention
avoid
baggy
branch
buddy
build-up
cap
cautiously
change
characteristic
check-out
clothes
conceal
conduct
constantly
contact
crawl
cross
danger
darkness
day
daylight
demonstrate
dense
designate
difficult
dress
easily
equipment
essential
evidence
example
extremely
feel
feet
fence
field
follow
foot print
free
front
function
guidance
hand
hanging
heard
hole

BASIC

air
assembly plant
bayonet
booby trap
camouflage
combat
count off
direct fire
dog tag
enemy
enviornment
far side
field environment
flank
food
leader
load bearing equipment
magazine
mine
mission essential
near side
odor
operation order
overwatching fires
pass up the count
patrol
pattern
poncho
raingear
rally point
react
recognize
recon
reconnaissance
secure
sense
sensitive
slingkeeper
smoke
soldier
standing operating procedures
steel pot
tripwire
unusual
weapon

TECHNICAL

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MOS 13B (CONT.)

GENERAL

identify
important
impossible
idependently/
individual
interval
jump
large
lead foot
leaf
limited
linear
listen
location
loose
low
maintain
man
maximum
member
memorize
metal
move
movement
night
noise
noisy
notorious
obstacle
open
order
particularly
periodic
personal
placement
practice
presence
problem
provide
quickly
quiet
rattle
rear
recognizable
remain
remove
report
return
road
run
rustle
secure
seen

96

MOS 13B (CONT.)

GENERAL

senior
sense
sensitive
sign
snag
sawp
soft
sound
special
specific
stealth
steep
step
stop
stream
stump
suspected
swish
tape
techniques
terrain
tie down
touch
trail
twig
underbrush
unnatural
use
visibility
vulnerable
warning
watch
wear
well-fitting
whisper
wrap

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MOS 13B

Task Number: 071-331-0806

Task Title: Identify opposing force armored vehicles

GENERAL

BASIC

TECHNICAL

absence
accuracy
adaptable
area
attain
auxillary
barrier
basic
boat-like
box
capacity
capability
car
cell
center
centralized
haracteristics
classroom
common
compartment
considerably
constant
cramped
cross
cross-country
currently
designed
device
difficult
dish-shaped
door
drive
driver
asy
effectiveness
employment
end
engine:
equal
even
external
factor
fatigue
feature
flat
flotation
freedom
fuel
gap
gently
grass
hard

active
air borne
air droppable
ammunition
amphibious
antiaircraft
antiarmor
antitank
APFSDS
armorment
armored
armor-piercing
assault gun
battlefield
belly wheel
blast deflector
bore evacuator
cannon
cap
centerguide
chassis
chemical energy
christie suspension system
coaxial
combat
combat role
command vehicle
commander
commanders cupola
counter attack
crew
crew member
cruising range
cupola
double baffle
dome-shaped
drive sprocket
duel
end connector
explosion
field training exercise
fighting compartment
fire control
firing pont
force
formation
foward area
friendly force
friendly tanks
fully tracked
garrison
gracis plate

GENERAL

headlight
heaviest
hit
identification
identify
increase
interior
kilometer
large
light
low
lower
main
maintain
meter
method
mile
miles per hour
millimeter
mobility
mock up
model
mount
mounted
move
movement
moving
night
nomenclature
normally
object
obscured
observed
operate
penetration
personnel
photograph
plant
position
power
pressure
primary
probable
propulsion
quickly
rack
range
rarely
rear
recognition
rectangular
regulation
resemble
restrict

BASIC

gun
gunner
heavy tank
high explosive
high velocity
hull
idler wheel
infantry
infrared
kinetic
live track
low-silhouetted
machine gun
main
mantlet
manuever division
manuever regiment
match
medium battletank
missile rail
morrORIZED rifle unit
mount
multi-baffle
muzzle brake
NATO
NBC
night viewing device
night vision device
nomenclature
noncommissioned officer
opposing force
periscope
range-finder
rate of fire
reconnaissance
return roller
road wheel
roof-mounted
rough terrain
round
scout
scout car
scour vehicle
search light
sight
silhouette
single baffle
smoothbore gun
snorkel
soldier
splashguard
stabilized gun
striking power
support roller

TECHNICAL

MOS: 13B

TASK: 071-328-3301

TASK TITLE: INSPECT PERSONNEL/EQUIPMENT

GENERAL

all
amount
appearance
before
begin
chances
complete
eliminates
equipment
find
fit
general
haircut
head
important
inspect
inspection
items
missing
motion
note
orderly
particular
pay attention to
point
readily
recognizable
remember
return to
saves
section
shaves
start
starting
study
time
try
within

BASIC

applicable
awards
basic issue items list
belt buckle
collar insignia
deficiencies
footgear
gigline
identification card
I.D. tags
inspections
patches
personnel
preventative maintenance
sequence
services
site
specified
standing oper-
ating procedures
technical manual
uniform
unit

TECHNICAL

NONE

Mos 13B
Task #061-267-1202

Engage/Dis an M101A1/M102 Howitzer and blackout lights from the prime mover.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
activate	blackout	fasteners
assistance	brakes	plug
brakes	cable	
connected/dis	disengage	
installed	engage	
lift	howitzer	
lights	mover	
lock/un	strap	
operational	trails	
prime	weapons	
release		
remove		
reverse		
system		
travel		
truck		

Mos 13B
Task #061-267-1203

lock/unlock the drawbar/lunette

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
additionally	command	pintle plate
couple (v)	disengaged drawbar	shaft
fixed	firing	towing type
lock/unlock	locking lunette	
loosen	lunette	
normally	mover	
place	pin	
proper	prime	
reversing	travel	
rotate		
ton	weapon	
towed (v)		

Mos 13B *267*
Task # 061-269-1204

Engage/dis travel lock on the M101A1/M102

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
assistant	engage/dis	cradle
center clear (v)	firing (n)	elevate
depress direct (v)	Howitzer	latch lock
given	stowed	pin
insert		strut
position proper		travel traverse tube
reinsert release remove		
secure		

Mos 13B
Task # 061-267-1205

Lock/unlock the shield flaps (M101A)

<u>Gen. Eng.</u>	<u>Basic Mil</u>	<u>Tech.</u>
bottom	cannon	latches
hole	commander (n)	pin
lock (v)	firing	shield
lock/un	flaps	support
place	latches (v)	
pull	mover	
reinsert	pin	
release	position	
retaining	prime	
return	retaining	
through	shield	
top	travel	
	uncoupled	

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MOS 13B

Task Number: 061-269-1205

Task: Lock/Unlock the shield flaps on the M114A1

GENERAL

bottom

command

hole

lock

lower

place

position

pull

raise

reinsert

release

return

through

top

unlock

upper

BASIC MILITARY

cannon

firing position

TECHNICAL

pin

prime mover

retaining pin

shield

shield flap

shield support

travel position

uncoupled

Mos 13B
Task # 061-267-1206

Emplace Spades *on the M101A1*

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
assistance	emplace (v)	locking
dig	fire	perpendicular
dirt	fired in	pins
firm	float (n)	tools
hard	gunner	trail
insert	howitzer	
marking (v)	lay (n)	
oriented	pioneer	
packed	plow	
partially	spades	
pick (n)	weapon	
prepare		
recheck		
rests		
shovel		
side		

Mos 13B

Task # 061-267-1209

Emplace/recover firing platform on the M 102

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
access	cannon	actuator
approximately	coupling	azimuth
assistant		
beneath	emplace	buffer
chest	firing	counterclockwise
	howitzer	crank
driven		deptht
	mover	
ease		elevate
emergency	personnel	extractor
equipment	prime	hammer
		reverse
handbrakes	recover	holders
		hydraulic
normal	stowed	
oriented	weapon	lock
		pins
permits (v)		
platform		travel
proper		tube
provide		
reinstall		
recover		
rotate		
section		
secure		
stakes (n)		
suspension		
wheel		

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Mos 13B
task # 061-267-1212

FIRE
Boresight the direct telescope on the M101A1/M102 using a distant aiming point (DAP)

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
accuracy	fire (n)	angle
aligned	level (n)	
assistant	range	boresight
available	sights	bracket
		bubbles
center (v)	task	
complete (v)	trunnions	clamping
		crescent
distant		crosshair
insure		elevation
knob		gage
loosen		hairline
position (v)		micrometer
		mils
site		
slip		picture
tighten		quadrant
verify		reads (v)
		recticle
		scale
		scales
		screwdriver
		sight
		telescope
		tube
		vertical
		worm
		wrench
		zero

Mos 13B
Task # 061-267-1213

Boresight the direct fire telescope on the M 101A1/M102 using the testing target

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
adjust	boresight	adjustment
arrow		aline
	emplaced	angle
centered		azimuth
completed (v)	fire/elbow	
crescent		bolt
	housing	bracket
direct		
	line	clamping
loosen		crescent
	range	
moveable	read (v)	diagram
necessary	scales/counters	elevation
	site	
proper	'target	knob
tighten	weapon	level
		micrometer
		recticle
		rotating
		screwdriver
		screws
		telescope
		testing
		tools
		trunnion
		tube
		vials
		worm
		wrench

Mos 13B

Task # 061-267-1214

Rig Howitzer for airmobile movement (M101A1/M102)

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
appropriate attach	airmobile ammunition	abrasions assemblies
caused check (v) cuts	chest covered	bags breech
delivery described determine	equipment howitzer	chain clevises cord
exceed	landing load (n)	leg link
grease	materials	multiple muzzle
inspect install insure	on-carriage operations	nylon
movement	piggyback	pads plug
permit (v) position(V) preparation prescribed: prior protective	rig sections sling weapon web	rigging sling slings
rapid		
serviceability		
signs		
tears. (n)		
wear (n)		

Mos 13B

Task # 061-267-1505

Prepare semifixed ammunition for firing

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
accuracy	ammunition	cannister
color	announced	coding
combination	cannoneer	components
completeness	charge	containers
dampness	command	corrosion
devices	delay	fuze(n)
error	fire	mechanical
identify	firing(n)	plug
insert	fuze	propellant
inspect	hand	screw(v)
insure	hand it(v)	time
markings	impact	wrench
nose	precaution	
observe	projectile	
prepare	propelling	
proper	receipt	
proximity	round(n)	
remove	section	
select	semifixed	
stenciled	serviceability	
supplementary	set(v)	
tighten	setter	
unservicable	shell	
various	"sit"	
	superquick	
	tarp	
	tools	
	vehicle	

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Mos 13B

Task # 061-267-1507

Load a prepared round for firing in the M101A/M102

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
Assistant	ammunition	case
base	balance	digit
enter	breech(n)	
	breechlock	primer
grass	cartridge	tool
insure	chamber	
	command	
place	deflection	
push	extractor	
ready	fire	
round	firing	
shove	fist	
slide(v)	howitzer	
	load(v)	
	point	
	prepared	
	projectile	
	"quadrant"	
	rammer	
	round	
	weapon	

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Mos 13B

Task #061-267-1516

Unload the cannon (semifixed)

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
applicable	ammunition	absorbent
appropriate	assembled	
assistants		chambered
cleaning	breechlock	
		dislodge
damaged	cannon	
difficulty	cartridge	extracted
disposal	case	
	charge(n)	process
fill	disassemble	
fit(v)		tube
	fuze	
insert		
	head	
level(v)		
	muzzle	
mark(v)		
	packing	
original	projectile	
preparations	rammer	
	ramming(v)	
rags	reset	
removal	round	
replace		
	"seat"	
shock	semifixed	
situation	setter	
sufficient	staff	
supervision		
	unload	
tap		
	weapon	
unserviceable		
waste		

Mos 13B
Task #061-267-1404

Inspect and clean cradle (M101A1/M102)

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
according to	area	plugs
brush	buildup	
drain	cradle(n)	
foreign fire freezing	howitzer	
holes hose(n)	lubricate	
inspect insure		
mud		
obstructions		
prevent		
remove		
stiff		
tools		
twigs		

Mos 13B
Task #061-267-1411

Assemble/disassemble breech and firing mechanism on the M102

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
appropriate assemble/dis	breech	bushing
depress	cannon	cocking crank
insure	emplaced	detent
location lower	field firing	elevate
materials	mils	helical
reference release	operational	level
tools	trigger	mechanism
	weapon	percussion plunger
		retainer retractor
		spring stop
		tension torsion
		unlatch(v)

Mos 13B

Task # 061-269-2225

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Boresight the panoramic telescope on the M101A1/M102 using a distant aiming point (DAP)

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
aide	aiming	align
assistant		axis
centered	gunner	azimuth
check	howitzer	boresight
distant	mount	bubbles
insure	panoramic telescope	counter
knob	weapon	crosshairs
locking		defined
panoramic		detent
picture		disc
recheck		elevation
tighten		horizontal
verify		howitzer
		knob
		level
		line of sight
		meters
		mils
		pantel(panoramic telescope)
		point
		read(v)
		recticle
		scales
		screwdrivers
		shaft
		sight
		tangent
		telescope
		trunnions
		tube
		vertical
		zero(v)

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Mos 13B 267
Task #061-269-2227

Boresight the panoramic telescope on the M101A1 using the standard angle method.

<u>Gen. Method</u>	<u>Basic Mil.</u>	<u>Tech.</u>
accuracy	fire	alinement
adjust		angle
aline	standard	
		boresight
control		
correct		cradle
install		deflection
lines		elevation
loosening		
		hairline
panoramic		horizontal
parts		howitzer
picture		
predetermined		level
secure		mark
standard		method
		mils
tighten		
		parallax
verify		pin
		quadrant
		range
		scale
		screws
		scribe
		set
		shield
		sight
		tangent
		telescope
		trunnions
		tube
		witness

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MOS13B

TASK # 061-269-2227

Boresight the panoramic telescope on the M114A1 using the standard angle method

GENERAL ENGLISH

attached

control
correct

edge

left
line(s)
locking
loosen

method

panoramic
picture
predetermined

ruler

verify

BASIC MILITARY

fire
standard

TECHNICAL

alinement
angle
azimuth

bright
boresight

deflection

eyepiece

horizontal

level

micrometer
mils
muzzle

parallax
pin picture

scales
screws
screwdrivers scribe
sight

tangent
telescope
trunnions

wiper
witness

M0s 13B ²⁶⁷
Task #061-~~265~~-2228

- Boresight the panoramic telescope on the M 101A1/M102 using the testing target

<u>Gen Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
alined	target	adjustment azimuth
centered		boresighting
completed		counter/scale
correct		diagram
devices		elevation emplaced
equipment		fine
except		howitzer
exist		indexes
include		knob
insure		level
lighting		micrometer
locking		mount
panoramic		pantel(panoramic telescope)
picture		pitch
place(v)		scales
prepared		screws
proper		shaft
properly		sight(n)
		sight(v)
slip		tangent
testing		telescope
tighten		trunnions
		tube
		vials

MOS 13B

Task Number: 061-269-1201

Task: Couple/uncouple air brake hoses on the M114A1

GENERAL

close
closed
cross

disconnect
disengage

engage

hook

insure

lock
locked

open

release
released

truck

uncross

BASIC MILITARY

gun

weapon

TECHNICAL

air brake hose
air line cutout cock

couple
coupling

drain cock
dummy coupling

handbrake
howitzer
Hose
prime mover

towing pintle

uncouple

165

MOS 13B

Task Number: 061-269-1202

Task: Engage/disengage an M114A1 and blackout lights from the prime mover

GENERAL

again
assistance

check
connected
correctly

disconnect
disconnected
disengage
drive
DRIVER
engage

free

ground

hold

installed

joined

lift
light
locking
lower

open
operational

plug
position
procedure
proper
pull

ready
release
remove
reverse

sitting
strap
system

top
travel
truck

uncouple
unlock

BASIC MILITARY

activate

gun

weapon

TECHNICAL

air brake hose

blackout light

cable

hand brakes
howitzer

lunette

pintle
pintle hook
prime mover

retaining latch/cover

trail
tube

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MOS 13B

Task Number: 061-269-1204

Task: Engage/disengage travel lock on the M114A1

GENERAL

assistant

center
clear

direct
disengage

elevate
engage

insert

lower

place
position
proper

raise
reinsert
remove

travel

BASIC MILITARY

firing

TECHNICAL

cannon

locking pin

pin

stowed

travel lock
traverse
tube

MOS 13B

Task Number: 061-269-1207

Task: Emplace/recover spades on the M114A1

GENERAL

allow

closed

dig
direction
dirt
down

each
end

facing
flat
front
fully

ground

hard
hard-packed dirt
hole

insert
insure

lift

mark
move

pack
partially
position
PLACE

raise
rear
recover
remove
rest
room

side
slanted
spread
standing
straight
start
surface

travel

BASIC MILITARY

aline

crew

emplace

fire

oriented

TECHNICAL

alinement lug

firing jack
float

key

plow

section equipment
spade key
spades

trail
trail handling bar

168

MOS 13B

Task Number: 061-269-1210

Task: Emplace/recover the firing jack and firing jack float on the M114A1

GENERAL

BASIC MILITARY

TECHNICAL

assistant

emplace
emplacement
engage

ball
beveled
bracket

depress

edge
elevation
end
exact
extend

firing jack
firing jack float
firing position
float

fully

handle
howitzer

ground

jack
jack plunger

horizontal

locking pin

left
limited
lock
lower

plung^{ing} stop

minute

ratchet
ratchet housing
ratchet pin
ratchet plunger

operate

sockets
spade

place
plane
position

trail
travel lock
travel position

raise
raised
rear
recover
release
remove
reverse
rotate

secure
steps
stored

take
turn

until

MOS 13B

Task Number: 061-270-1407

Task: Operate an M109/M109A1 under unusual conditions

GENERAL

avoid

bare
breathe

cause
check
clean
close
cold
conditions
conduct
covered

drive
dust

each
engine
enter
especially
evaporated
expand
extreme

film
fluid
follow
freeze
frequently

hand
heat
hour

involved

loosen

maintain
metal
moisture

necessary

oil
open
operate
operations

possible
procedures

sand
slowly
splashing
start
stop

temperature
thin
tighten
time
touch
trying

under
unusual
use

vehicle
~~WATCH~~
warm
water
weather

yard

BASIC MILITARY

fired

grease

lubricate ^{NT}

weapon

TECHNICAL

battery
bilge pump
breech mechanism
~~CHARGE~~
cam tension adjuster screw
cannon
coat
cold weather starting procedure
condensation
coolant heater
crew

drain
driver's hatch

fire control equipment
flame heater
fording
fording operations
fording water

howitzer

jam nut

keep

manually

operating temperature
operator's manual
optics

recoil system
road wheel seal
~~SECTION EQUIPMENT~~
shutdown procedure

transmission
tube

watertight seal
winterization kit

MOS 13B

Task Number: 061-269-1513

Task: Load a prepared round for firing in the M114A1.

GENERAL ENGLISH

announce
appropriate
assembled
assistant

block

clockwise
close
correct

hand
hold

inch
insert
insure

left
lip

open

pad
place
powerful
prepared
push

rear
red
remove

stroke

take
turn

use

BASIC MILITARY

ammunition

command

firing

load

round

TECHNICAL

breech
breech recess

cannon
chamber
charge

fire command
firing mechanism
firing position

housing

igniter

loading elevation
loading tray

powder
powder chamber
powder charge
primer
projectile

quadrant

ram
rammer
rammer head
rammer staff
ready

MOS 13B

Task Number: 061-269-1214

Task: Rig the M114A1 for airmobile movement

GENERAL

abrasion
attach

brakes

carry
caused by
check
closed
cover
cuts

date
delivery
described
determine

equipment
exceed

grease

include
inspect
installed
insure

load

materials
movement

necessary

oil
operations

pad
permit
position
pound
preparation
prior
procedures
protective
put

rapid
requirement

safely
signs

tape
tear

use

wear

BASIC MILITARY

airmobile
ammunition

prescribed

rig
rigging

serviceability

TECHNICAL

A-22 bag

breech

clevice

howitzer

landing zone
link assembly

muzzle plug

nylon and chain multiple leg
sling

piggyback load

section
sling
sling leg

tube

WEB SLING

MOS13B

TASK #061-269-2225

Boresight the panoramic telescope on the M114A1 using a distant aiming point (DAP)

GENERAL ENGLISH

BASIC MILITARY

TECHNICAL

aline
adjust
assistant

weapon

actuating
aiming
arm
axis

centered

boresight
bubbles

crosshairs

defined

disc
distant

elevation

insure

horizontal
howitzer
indexes

knob

level
line of sight

meters
mounted

loosening
locking

pantel(panoramic teles-)

trunnions
tube

necessary

scales
set(v.)
sight
strings

picture

tangents

slip

vertical

tighten

zero

verify

MOS 13B

TASK # 061-269-2228

Boresight the Panoramic Telescope On The M114A1 Using the Testing Target

GENERAL ENGLISH

adjusting
alined

center
cross(v.)
completed
correct

equipment

knob

installed
insure

loosen

panoramic
properly

retighten

show(v.)

supply

tested(ing)

BASIC MILITARY

gunner

TECHNICAL

arm
actuating

boresighting
bubbles

devices
diagram

elevation
emplaced

howitzer

lighting

micrometer

panrel(panoramic telescope)
pitch

quadrant

scale
screws
screwdrivers
set (v.)

tangent
target
telescope
tube
trunnions

vials

zero

MOS 13B

TASK # 061-269-2232

Use the deflection board during assault fire on the m1141

GENERAL ENGLISH

accounted for
accuracy
alinement
actual
announced
apply

centered
color
conduct
corresponding
conduct

exactly

importance
involving

pattern
piece
premeasured
properly

requires

set off
shift(n.)

utmost

BASIC MILITARY

aiming
assault
fire
posts

TECHNICAL

band
board

crosshairs
counter

deflection

emplaced

fraction

graduation

howitzer

inch

meters
millimeter
mil

pantel(panoramic telescope)

recticle

scale
sight(v.)

tape

verticle

wire

MOS 13B

Task Number: 061-270-1601

Task: Operate an M109/M109A1 under normal conditions

GENERAL

according to
applying
approximately

below
brake

ca/r/t
check
complete
conditions

desired
drive

engine

following

gradually

hold

lever
lock

minute

normal

obtain
operate
operation

(parking brake
place
press
procedures
pull
push

range
read
refer to
release
return
run

safely
second
set

speed
start
starter
starter switch
stop
switch

temperature
transmission
turn off
turn on

use
vehicle
warm up

TECHNICAL

accelerator
accessory
apply brake

checkout procedure
communication
coolant

driver's compartment

engine oil pressure gage

first gear
fuel shutoff handle

hand throttle
hull

idle
instrument panel
intermediate ranges

light switch assembly
logbook

master switch

neutral

registers
reverse gear
revolution per minute

shift

tachometer

vehicle dispatch and ground g

water temperature gage

MOS 13B

Task Number: 061-270-1208

Task: Emplace/recover spades on the M109/M109A1

GENERAL

area
assistant

back up

clear
closed

depress
depressed
dig
down
driver

firmly
forward

ground
guide

insure

lock
lower

motion

position
positioned
pressure
pull

raise
rear
recover
relieve
relock
remove
replace

secured
solidly
suitable

travel

under

vehicle

BASIC MILITARY

direction of fire

emplace
emplacement

TECHNICAL

cable

case

HULL ~~hull~~ door

kinked

latched
locking latch

pedal
pedal latch

rubber clasp

safety pin
spade pedal
spades
struts

MOS 13B

Task Number: 061-270-1204

Task: Engage/disengage travel lock on the M109/M109A1

GENERAL

assistant

clear

direct

elevate

insert

lock

lower

open

place
position
proper

raise
ready

support
swing-

top
travel

unlock
upright

BASIC MILITARY

firing

TECHNICAL

cab traverse lock
cannon
cap

disengage

engage

gunner

handle

locking handle
locking pin

secure
stowed position
strap

travel lock
tube

MOS 13B

Task Number: 061-270-1212

Task: Boresight the direct fire telescope on the M109/M109A1 using a distant aiming point (DAP)

GENERAL

BASIC MILITARY

TECHNICAL

accuracy
adjust

MIL

aline
axis
azimuth knob
azimuth scale

center
complete

boresight
boresighting disc

level
look through

cannon
crosshair

minute

position

direct fire telescope
distant aiming point

slip

elevation knob
elevation scale

task

fire control sights

use

hairline

verify
vertical

mounted

zero

range line

sight picture

telescope
trunnion
tube

MOS 13B

Task Number: 061-270-1213

Task: The direct fire telescope on the M109/M109A1 using the testing target

GENERAL

adjustment

completed

diagram

level

minute
move

necessary

proper
properly

read
right
rotate

slip

tool

verify

BASIC MILITARY

weapon

TECHNICAL

alined
azimuth knob
azimuth knob scale
azimuth scale

boresight
butterfly

direct fire telescope

elbow telescope
elevation knob
elevation knob scale
elevation scale
emplaced

level tube

sight picture

telescope
testing target
trunnion

MOS 13B

Task Number: 061-270-1514

Task: Load a prepared round for firing in the M109/M109A1

GENERAL

against
announce
appropriate
assembled
assistant

back

caution
clear
close
closed
correct

elevation
error

fast
forward
fully

hand
help

inch
insure

latched
line

manually
move

never

open

place
position
prepared
pull
push
put

rear
release
remove
return
rotate

slide
smooth
swing

take
touch
without

BASIC MILITARY

ammunition

breech

command

firing

load
loading

TECHNICAL

activate
aline

base
black band area
breech face

cab rear door
cannon
charge
cylinder
cylinder latch

fire command
firing block
forcing cone

gage

howitzer

igniter

latched position
loading position
loading tray

main release handle

pointer
powder
powder chamber
powder charge
powder rammer
prime
primer
primer chamber
projectile

ram
rammer
rammer cylinder
rammer head
rammer staff
rear stop
red pad
rotating band
round

scribemark
seated
standoff lug
stow

Task Number: 061-270-1514

stowed position
swiss grove

tray
tube

MOS 13B

Task Number: 061-270-1405

Task: Clean chamber evacuator, valves and muzzle brake on the M109/M109A1

GENERAL

check
clean
crack

depress
dry

fall
forward

ground

hole

inch
in place
installed
insure

key

long
lower

move

piece
people
prescribed
proper
properly

rearward
reinstall
remove

screw
slide

truck
turn

unscrew
use

wipe

BASIC MILITARY

canvas

lube order
lubricate
lubricate
lubrication order

rifle bore cleaner

TECHNICAL

bed
brake

chamber evacuator

detent
drain plug

evacuator
evacuator valve

lock
locking ring
lock plate
lock washer
lubrication interval

metering orifice
muzzle brake

packing

service interval

thrust collar
thrust collar detent
tube

valve
valve assembly
valve ball
valve cap
valve ring

Mos 13B 270
Task # 061-273-2225

Boresight the panoramic telescope on the M 109/M 109A1 using a distant aiming point.

Gen. Eng.

aid
appears
centered
check

defined
distant

edge

insure

knobs

panoramic

read

Basic Mil.

gunner

weapon

Tech.

aiming
alined
axis
azimuth

boresight
bubbles

counter

depress
disc
diterrrt

elevation

howitzer

level

meters
mils
mounted

panor (panoramic telescope)
point

reticle

screwdriver
shaft
sight
strings

telescope
tube
unions

zero

Mos 13B
Task # 061-270-2228

Boresight the panoramic telescope on the M 109/ M 109A1 using the testing target.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
adjusting	measures	alined
appear		azimuth
	performance	
check		boresighting
completed	standards	bubbles
devices		counter
equipment		diagram
exist		elevation
insert		emplaced
installed		
insure		level
lighting		mounted
panoramic		pantel (panoramic telescope)
picture		pitch
properly		scale
push		set
read		shaft
remove		sight
verify		target
		telescope
		trunnions.
		tube
		vials

MOS 13B

Task Number: 061-272-1204

Task: Engage/disengage travel lock on the M107/M110 series

GENERAL

assistant

center
clear

depress

DIRECT
elevate

guide

inch
insure

loosen
lower

measure
move

place
pressure
position
proper

ready
remove
release
relieve
return
right

secure
side

tighten
travel
turn

use

BASIC MILITARY

firing

TECHNICAL

cannon
chain
clamp
clevis
clevis pin
cradle

disengage

engage

in-battery position
install

handle

latch
lock
locked position
locking handle

mount

out of battery position

recoil indicator
retainer
retraction length
stowed position
tiedown
travel lock
travel position
traverse
tube
tube travel lock
turnbuckle handle

unlock position

witness mark

MOS 13B

Task Number: 061-272-1602

Task: Operate an M107/M110 series motor carriage under normal conditions

GENERAL

according to
adjust
allow
approximately

check
complete
condition
cool

desired
direction
drive

engine
even
exceed

fahrenheit
following

gradually

hold

in place
installed
insure

lights
lock
MAKE
minute
motor

normal

obtain
only
open
operate
operation

perform
place
position
press
procedures
pull
push

release

retracted
return
reverse
run

safely
series
start
steady
stop

turn
turn off
turn on

until
use

vehicle

wall
warm up

BASIC MILITARY

logbook

weapon

TECHNICAL

accelerator
accessory

brake pedal

communication

driver's compartment
driver's hatch

first gear
fuel shutoff handle

gear
ground guide
gun tube
gun tube travel lock

instrument checkout procedure
instrument switch

lamp switch
light equipment
light switch assembly

master switch
motor carriage

neutral
normal idle
normal-hold position

prime and purge switch

retract valve handle
revolution per minute

service brake
shift
sighting equipment
slide retainer
spade hydraulic system emergency
shutoff valve
speed chart
speedometer
speed range
starter
starter switch
steering bar
switch

tachometer
throttle

Task Number: 061-272-1602

transmission lever
turnbuckle handles
turret well

vehicle dispatch

MOS 13B

Task Number: 061-272-1501

Task: Transport cannon ammunition on the M107/M110 series

GENERAL

applicable
apply
assistant

break

carrying
chain
closed
container

damage
direct

easily
expose

follow

heat
help
hot

insure
know
load
location

moisture

necessary

outside
overheat

prevent
protect
protected

rule

safety
seal
securely
strap
sunlight

temperature
transport

vehicle

weather

BASIC MILITARY

ammunition

labeled

small arms
store

TECHNICAL

cannon

fuze

primer
propellant *CAN*

rack

spade
spade strut

MOS 13B

TASK NUMBER: 061-272-1211

TASK: Operate the oil pump motors on the M107/M110 series

GENERAL

adjust
after
amounts
assistant
automatically

built up

cause
check
correct

different

each
emergency
engine
establish

insure

- large

maintain
move

normally

oil
operate

position
pressure

proper

reach
read
recharge
run

set
should
shut off
start
stop

turn off
turn on

until
use

vehicle

TECHNICAL

emplace

fluid level check

gage

handbrake

idle
in battery

main oil pump
manual hand pump
master switch

oil pump motor
oil pump motor switch
operating pressure
out of battery

pounds per square inch
power take off
power take off switch
pump
pump switch

rammer control
replenish
revolutions per minute

spade
shutdown procedure
system

tube

MOS 13B

TASK NUMBER: 061-272-1212

TASK: Boresight the direct fire telescope ^o in the M107/M110 series using a distant aiming point

GENERAL

accuracy

level

lock

look

loosen

minute

position

precisely

prepare

rotate

secure

small

through

tighten

turn

use

verify

vertical

BASIC MILITARY

mil

TECHNICAL

aline

allen wrench

boresight

boresighting disc

~~canon~~
center

center axis

crosshairs

cross level bubble

cross level knob

deflection adjusting cam

deflection locking screw

distant aiming point

direct fire telescope

elevation adjusting screw

elevation correction counter

elevation level bubble

elevation locking lever

elevation locking screw

fire control sight

lay

mounted

quadrant correction knob

quadrant elevation knob

screwdriver

sight picture

telescope

trunnion

tube

zero

zero range line

MOS 13B

TASK NUMBER: 061-272-1213

TASK: Boresight the direct fire telescope on the M107/M110 series using the testing target

GENERAL

adjustment

center
centered

level
lock

minute
must

necessary

proper
properly

read
right

tools
turn

unlock
use

verify

zero

BASIC MILITARY

weapon

TECHNICAL

aline
alined
azimuth adjusting screw
azimuth counter
azimuth locking lever

boresight
boresight cross
butterfly

center

diagram
direct fire telescope

elbow telescope
elevation adjusting screw
elevation counter
elevation knob
elevation level vial bubble
elevation locking lever
emplaced

leveling vial

sight picture

testing target
trunnion

TUBE

MOS 13B

TASK NUMBER: 061-272-1515

TASK: Load a prepared round for firing in the M107/M110 series.

GENERAL

aided
assistant

back
both

close
closed
contact

depth
direct

extend

forward
fully
function

give
ground

hold

insert
install
insure

left
lock
lower

maintain
make
mark
measure
minimum
move

necessary

open
operate

place
position
properly
push

quickly

raise
rear
release
remove
replace
retract
return
rotate

sides
slide
stop
swing
sure

toward

unlock
until
use

vehicle

BASIC MILITARY

firing

load

TASK NUMBER: 061-272-1515

TECHNICAL

aligned

breech
breech block
breech ring

cannon
chain
~~change~~ CHARGE
cover
crank

engage
engaged

firing block mechanism
follower knob

hand crank
handle
hydraulically
hydraulic hand pump

igniter
LA T CH
loader arms
loader rammer
loader-rammer slide
loading elevation

manually
master switch

obturator spindlehead
oil pump motor switch
operating lever

Powder → pounds per square inch
powder chamber
powder charge
power loader-rammer
prepared powder charge
prepared projectile
prepared round
primer
primer chamber
projectile
projectile tray
projectile tray hook

194

ram ← RAM POSITION LOCK
rammer
rammer control safety cover
rammer control valve HANDLE
ramming position
ram position lock
red pad

safety cover
seated
snap in
stow
STOW POSITION
stow position LOCK ← STOWED POSITION
swing control valve HANDLE

tray
trough
tube

MOS 13B
TASK NUMBER: 061-272-1511
TASK: Measure the depth of ram on the M107

GENERAL

action
against
attempt
attempted

close
correct

depth
depressing
determine

elevated
end
exist

incorrect
in line
in place
insert
inspect
insure

long
lower

maxium
measure

notify

occur

place

rags

smooth
still

take

unsafe

BASIC MILITARY

fire
firing

TECHNICAL

base
breech
breech ring

center axis

fire direction center

gage
grooved
gun

loading tray

powder chamber
projectile

quadrant elevation

ram
rammed
range dispersion
reram
rod
rotating band
round

seated
short ram

"tee" end
tube

MOS 13B

Task Number: 061-272-1408

Task: Operate an M107/M110 series under unusual conditions

GENERAL

add
allow
area
available

battery

check
clean
cold
condition
conduct
control
cover

degree
drive
driver
dust
dusty

engine
extreme

fahrenheit
flow
forward
frequently
function

heat

in place
insure

keep

meter
moisture
move
movement

operate
operation
outlined

position
possible
prepare
prevent
procedures

run

sand
shade
slowly
start
surface

take part in
temperature
turn off

under
until
unusual
use

warm
water
weather
wipe

BASIC MILITARY

fire
firing

lubricate

mission

oily

weapon

TECHNICAL

airbox heater
air intake cover
alcohol
allowable entrance angle

bow wave
breach
breachblock

cannon
charge
charged
cold weather starting procedure
coolant heater
cover
crew compartment
crew compartment dome lights
crew compartment heater
cupola

deflectors
diesel fuel
driver's window

exhaust and intake grill
exhaust port cover

fording
fording water
fuel valve start switch

heater

into battery

jellied alcohol fuel

muzzle

~~operator's~~
operator's manual
out of battery

park
powder *CHAMBER*
powder charge
projectile

replenisher piston
retraction valve handle
road wheel seal

Task Number: 061-272-1408

section
section equipment
secure

tarp
transmission
tube

winterization kit

zone

Mos 13B

Task # 061-272-2225

Boresight the panoramic telescope on the M107/M110 series using a distant aiming point (DAP).

Gen. Eng.

Basic Mil.

Tech.

adjusting
aid
appears

gunner
weapon

aiming
aline
axis
azimuth

depress
direct(v)
distant

boresight

edge

counter
crosshairs

knob

detent
disc

loosening

elevation

panoramic

hairline
horizontal

recheck
retighten

levels
line of sight

series
slip

mils
mounted

window

pantel (panoramic telescope)
point

reticle

screwdriver
screws
shaft
sight
strings

telescope
trunnions
tube

zero

Mos 13B
Task # 061-272-2227

/M110/

Boresight the panoramic telescope on the M107/M110A1 using the standard angle method.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
accuracy	fire	aline
adjust		angle
adjustment		azimuth
control		boresight
correct		chock (v)
knob		counter
loosening		cradle
method		deflection
panoramic		elevation
predetermined		horizontal
retighten		howitzer
standard		level
verify		mark
		muzzle
		panrel (panoramic telescope)
		parallax
		pin
		quadrant
		range
		recoil
		reset
		screws
		scribe
		shield
		sight
		telescope
		trunnions
		tube
		(vertical)
		(verticle)
		witress

Mos 13B

Task # 061-272-2228

Boresight the panoramic telescope on the M107/M110 series using the testing target

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
adjusts	cannon.	alined
appears		azimuth
centered		boresight
completed		bubbles
correct		
cross		counter
devices		detent
equipment		diagram
follows		elevation
installed		implaced
insure		level
knobs		mount
lighting		pantel (panoramic telescope,
needed		pitch
panoramic		read (v)
place (v):		screwdriver
properly		shaft
series		sight
testing		target
turn on		telescope
		tube
verify		vials
		zero

200

Mos 13B
Task #061-273-1202

Engage/disengage an M115 Howitzer and blackout lights from the mover. ^{PRIME}

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
assistant	blackout bogie	activate air arm
chain connected	cannon chock	bracket brake
drain	dummy	cable clamping cocks couplings cutout
inner installed	engage/dis	davit
lift	howitzer	hitch hoist keys
remove replace reverse	mover operational	latch line
support	prime	nuts
tank tools	travel	pin plug retaining system trails weight
unhook/hook	uncouple uncross	
wheels		

Mos 13B ²⁷³
Task #061-~~287~~-1204

Engage/disengage cradle lock on the M115.

Gen. Eng.

assistant
attaching

direct(v)

insert

lifting

permit(v)
place(v)
proper

relieve
remove
replace

toward

unhook

Basic Mil.

bogie

cannon

firing

engage/disengage

travel

weapon

Tech.

breech

chain
clip
clockwise
cradle

depress

elevate

lock
lug

pressure

screw

tube

Mos 13B 273
Task #061-267-1212

Boresight the direct fire telescope on the M115 using a distant aiming point(dap)

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
accuracy	aiming	aline(v)
adjusting		axis
assistant	boresight	
available		bubble
	cannon	
crescent	canted	center
	control	clamp
distant		components
	direct	crosshairs
elbow		crosslevel
	fire	
holder		disc
	gunners	
laid		elevation
loosen	mils	
	mounted	lateral
tighten		level
	point	
verify	range	mount(n)
	sights	quadrant
		screwdriver
		screws
		telescope
		trunnion
		tube
		vertical
		worm
		wrench
		zero

Mos 13B ²⁷³
Task #061-267-1213

Boresight the direct fire telescope on the M115 using the testing target

Gen. Eng.

adjustment
appears
placing

placing
properly
testing
tightly
tilted
tools

verify

Basic Mil.

boresight

direct

emplaced

fire
fire/elbow

target

^owarms
weapon

Tech.

alined

butterfly

clamp
cross

diagram

horizontal

lateral
level
leveling

rads
parallel
pattern

quadrant

recticle

screws

telescope
trunnion
tube

verticle

^owarms

Mos 13B 273
Task #061-272-1515

Load a prepared round for firing in the M115.

Gen Eng.

assembled
assistant

block(v)

correct

error

inches

place(v)
powerful
prepared

remove

stroke

turn

Basic Mil.

ammunition
announce

cannon
charge
command

fire
firing

head
housing

igniter

load(v)

mechanism

pad
powder
primer
projectile

rammer
rear
rid
round

staff

Tech.

breech

chamber
clockwise

elevation

lip(n)

tray

Mos 13B
Task #061-273-1318

Set/lay the M115 for quadrant

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
accuracy	announced	angle
arrow		
assistant	command	bubbles
bottom	fire	centered
		clutch
capable	gunner's	
check		depress
consistency	lay	
		elevate
direct(v)	mils	elevation
	muzzle	
exactly		level
examine	sit	lever
firmly	tested	micrometer
	tube	
hold		quadrant
	weapon	
insure		shoes
laid		zero
manner		
placed		
release		
reliability		
remove		

Mos 13B
Task #061-273-1319

Measure the quadrant on the M115.

Gen. Eng.

adjusting
arrow

burrs

check

debris

edge

firmly

measure

nicks

scratches

Basic Mil.

cannon

gunner

muzzle

Tech.

arm
arrow

bubble

center(v)

elevated

index

level
leveling

mark
micrometer
mil

plate
plunger

quadrant

shoes

tested
tube

MOS: 13B

TASK: 061-273-2225

TASK TITLE: BORESIGHT THE PANORAMIC TELESCOPE ON THE M115 USING A DISTANT
AIMING POINT. (DAP)

GENERAL

adjusting
assistant
centered
distant
insure
least
level
meters
minutes
set
tighten
well
with
within

BASIC

aline
elevation
mils
weapon

TECHNICAL

aiming point
axis
azimuth scale
boresight
boresight strings
bubbles
crosshairs
defined
disc mounted
distant aiming point
horizontal reticule
howitzer
line of sight
locking screw
micrometer scale
panoramic telescope
sight picture
tangent screws
telescope elevating knob
trunnions
tube
verify
vertical reticue

MOS: 13B

TASK: 061-273-2227

TASK TITLE: BORESIGHT THE PANORAMIC TELESCOPE ON THE M115 USING THE STANDARD
ANGLE METHOD.

GENERAL

accuracy
all
attached to
bright
correct
during
elevate
install
level
minutes
needed
parts
pin
position
red
screwdrivers
set
tighten
turning
using
verify
within

BASIC

mils
predetermined

TECHNICAL

aline
alinement test
azimuth scale
boresight
deflection
elevation
elevation knob
fire control
gunner's quadrants
horizontal hairline
howitzer
left muzzle witness mark
line of sight
locking screws
mount
panoramic telescope
recoiling
scribe lines
sight picture
standard angle
standard angle method
tangent screws
trunnions
tube
vertical hairline
witness mark

MOS: 13B

TASK: 061-273-2228

TASK TITLE: BORESIGHT THE PANORAMIC TELESCOPE ON THE M115 USING THE TESTING TARGET

GENERAL

adjusting
all
central
centered
completed
correct
diagram
equipment
exist
hand
insure
left
level
look
minutes
must
needed
place
prepared
proper
properly
read
release
set
through
tighten
turned on
using
verify
when
within

BASIC

night lighting
device

TECHNICAL

aligned
azimuth scale
boresight
bubbles
elevation knob
emplaced
locking screws
mount
mounted
panoramic telescope
pitch and cross level vial
scales
sight
sight picture
tangent screw
testing target
trunnions
tube
vials
zero

Mos 13B
Task #113-587-1004

Install radio set ~~AN/VRC-46~~ ~~can~~ VRC-12 series.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
apply	chief	aligned
assist		ammeter
available	field	antenna
		audio
base	garrison	
		base
carry	operated	
cartons		cable
causing	personnel	components
		connections
damage	radio	connector
endangered	task	disposal
environment	team	
erect		electrical
erected		electron
exposed		
		graphite
hazard		grease
in accordance with		isolator
injury		
installation		level
installed		
		meter
lift		mount
location		
		pounds
medical		
mobile		radioactive
		receiver
notify		receptacle
operated		set
performed		threads
personnel		tiedown
potentially		transmitter
prevents(v)		truck
provide		
		unit
rarely		
removal		verticle
secure		
seizing		
straps		
surface		
tighten		
tip(n)		

Mos 13B

Task #113-587-2003

Operate radio set ~~AN~~ / VRC-46 (AN VRC-12 Ser.)

Gen. Eng.

assigned
assistance
available

clear(v)
communication
current

damage
desired
determine

edition
environment
establish

insure

location

maintenance
motor

occur

performed
provided

supervision

vehicle

"wiggle"

Basic Mil.

chief

field

garrison

set
station

task
team

Tech.

accessory
align
antenna
audio

band

connector

handset

knobs

locking

mounting

operator

receiver

selector
set(v)
squelch
switch

transmitter

Mos 13B
Task #113-587-3004

Perf. opr. maint. on radio sets an /VRC-46 and an/VRC-47.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
blank	field	call
correct(v)	garrison	frequency
deficiencies	range	mounted
faults	task	operational
in accordance with installed		radio
location		screwdriver
maintenance		set
		signs
		station
operational outlined		trichloroethane
perform prescribed preventive procedures provided		
shortcomings		
vehicular		

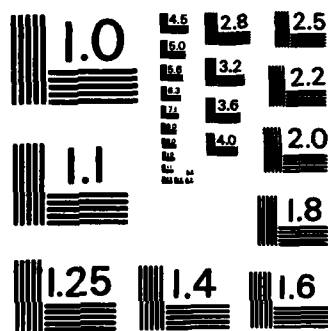
4/4

F/G 5/9

NL

END

FILMED
12 42
DTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS - 1963 - A

Mos 13B
Task # 113-609-2008

Prepare for oper. and operate speech sec. equipment Tsec/KY-38.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
bag	keylist	alarm
ballpoint		antenna
	station	audio
current		
daily		breaker
distant		
equipment		cable
		call
operation		channel
		check(n)
perform		cipher
prepare		communicate
		connected
security		connectors
speech		
successful		delay
		dial
vehicle		extract
		frequency
		handset
		installed
		key(n)
		keylist
		mike
		mode
		mount
		radio
		reset
		sign
		sit(v)
		speaker
		squellch
		station
		switch
		test
		tune
		volume

(OVER)

214

Mos 13B
Task #061-306-6001

Perform low-level anti-jamming procedures.

Gen. Eng.

attempting

determine

map
means

orient

perform
procedures

receive
report

secure
source

unknown

Basic Mil.

field

location

Tech.

antenna
anti-jamming

communicate
compass
constructed
control

disconnect
distant

grid

interference

jam

low-level

message

net

station

transmissions
transmit

wire

Mos 13B
Task #113-573-4001

Encode and decode message using KTC-600 tactical operations code

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
alphabetical	chief	code
arranged		coded
assistance	field	
available		decoded
check	garrison	
	operations	encode
directed	standard	group
effective	tactical	message
exceed	task	plaintext
identify	team	received
in effect		recorded
location		
look up		set
made up of		weather
performed		
period		
phrases		
portion		
procedure		
repeat		
sample		
supervision		
whole		

Mos 13B
Task #113-609-9001

Destroy communications security equipment and materials.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
available	classified	cables
axe	combat	clockwise
		communications
burn	duty	
butt		extracts
	entrenching	
destroy		key
	operation	
equipment		operable
	personnel	
heavy	position	security
		switch
insure	rifle	
		wires
list	weapons	
		zeroize
materials		
normally		
object		
permits		
pour		
priority		
speech		
tool		

MOS 13B

TASK NUMBER: 551-721-10002

TASK: Prepare DA Form 2404 (equipment inspection and maintenance worksheet)

GENERAL

all
assistance

column
condition
corrected

date
direct

equipment

hours

initial
item

name
necessary
normally
noted
number

operation
operator

pen
pencil
person
perform
place
prepare

required

sign
supervision

take
time
total
type

under

vehicle

weather
without

BASIC MILITARY

^β
applicable

block

corrective action

D A Form 2404
discrepancy

enter

federal stock number
field condition
fired

hot start

in garrison
inspection

logbook

maintenance
maintenance supervisor
man-hours
mileage
model
mounted

nomenclature

organization

reference
registration
round

serial
shortcoming
signature block
status

task
technical manual
turbine engine

weapon
worksheet

MOS 13B

TASK NUMBER:551-721-1003

TASK: Prepare DA Form 2408-1(equipment daily or monthly log)

GENERAL

added
all
appropriate
assistance

below

changed
column
complete
completed
completion
conclusion
condition

daily
during

end
equipment

item

listed

monthly
most

necessary
normally

oil
operator

part
pen
pencil
perform
portion
prepare

GENERAL

receive
recorded
required

sign
signature
serious

total
turn in

under
upon
utilizing

vehicle

weather
without

BASIC MILITARY

before operation check

DA Form 2408-1
Department of the Army
dispatch
dispatcher

enter
entry

field condition

hour meter reading

in garrison
initiated

legible
log
logbook
lubricant

odometer reading
oil changed or added
operation period
operational status

reading hours
reading meter

steps
supervision
symbol

task
total fuel added

uncorrected fault

MOS 13B

TASK NUMBER 551-721-1007

TASK: Perform before-operation maintenance

GENERAL

accordance with
action
adjustments
all
assistance

check
clean
component
condition
conditions
correct

damage
direct
drain

engine
equipment
exterior

fault
found

general

horn

include
inflate
inspect
issue
item

leak
level
listen

maximum
minimum
minute
must

necessary
noise
normally

oil
operation
operator

pen
pencil
perform
proper

record

spent

time
tire

under
unusual

vehicle

water
weather
within
without

BASIC MILITARY

applicable
appropriate publications

basic issue items
battery fluid
before-operation maintenance
binding
box

cable
clamp
clutch
contamination
coolant
correctable
coupling jaws

DA Form 2404

ENGINE IDLE SPEED

field condition
fifth wheel mounting
filler neck
free play
free travel
fuel
fuel filter
fuel tank

hand brakes
hold down frames
hook

in garrison
instruments

light lenses
locking lever plunger
log book

TASK NUMBER 551-721-1007

BASIC MILITARY

operators level of maintenance

power steering reservoir
plunger

radiator
reflectors

service brakes
shear pin
steering
strainer
supervision
surge tank

task
technical manual
transmission
transfer selector *LEVEL.*

up-to-date

winch

MOS 13B

TASK NUMBER: 551-721-1008

TASK: Perform during-operation maintenance

GENERAL

add
all
any *B*
assembly
assistance
attachments

between

check
conditions
correct

deficient
direct

engine
equipment

item

loose
loss of air

must

necessary
noise
normal
normally

object
oil
operation
operator
others
PEN
pencil
perform
proper

record
remove

tighten
tires

under
unusual

vehicle

weather
wheels
within
without

BASIC MILITARY

applicable

basic issue items
binding
body
brakes
braking affect

CAB
chatter
clashing
clutch
components
coolant
coolant level

DA Form 2404
drag
duals
during-operation

ear
exhaust system

feel
field condition
free play

GEAR
grab

halts

in garrison
instrument reading
instruments

level of maintenance
logbook
lug nuts

maintenance
mounting bolt

operator

penetrating object
powertrain

shimmy
side pull
slippage

TASK NUMBER: 551-721-1008

BASIC MILITARY

slip out of gear
steering
stiffness
supervision

task
technical manual
tendency
transmission

vibration

wander
winch

MOS 13B

TASK NUMBER: 551-721-1009

TASK: Perform after-operation maintenance

GENERAL

adjust
adjustment
all
apparent
assistance

check
clean
conditions
correct

damage
direct
drain

equipment
excessive

fill
fuel

general

heat
insure
ms

leak
level

must

necessary
normally

operation
operators

pen
pencil
perform

remove
required

tire

under

vehicle
visually

WEATHER
wires
within
WITHOUT

BASIC MILITARY

after-operation
air reservoir
alterat^{OK}~~ion~~
applicable
applied
assemblies

basic issue item
belts
brake fluid

cables
connections
contamination
coolant
coolant level
covers

DA Form 2404
deficient

engine oil
entries

field condition
filler neck
forms
fuel level
fuel strainer
fuel tank

gage
gear oil

handbrake
handbrake level^R
hoses

in garrison

lines
linkage
logbook
lubricate
lubrication orders

maintenance
manuals
mounting condition

TASK NUMBER: 551-721-1009

BASIC MILITARY

operator's level of maintenance

penetrating object

record
released

secure
secureness
starter
stow
supervision
surge tank radiator

task
technical manual

up-to-date

MOS 13B

TASK NUMBER: 551-721-1013.

TASK: Operate vehicles in snow and ice

GENERAL

advance
allow
apply
assistance
avoid

between

causing
center
conditions
crossing

damage
descend
direct
distance
door
double
drive
dry

engine
equipment

free
freezing over
frozen

give
good
gradually

heat

ice
injury
item

keep

lights
listed

maintain
manner
must

necessary
normal
normally

objects
open
operate
other

performed
place
poor
prevent
procedures
purposes

rear
road
rocks

safe
safety
slow
snow
speed
stop
streams

throw

under
use

vehicle
visibility

when
without

BASIC MILITARY

accelerate
all-around vision

brake pedal
brakes
bridge surface

~~cab~~
cab
clutch
cold weather starting *PROCEDURES*
crown

defrosters

engage

field condition
flash

heavy slush area
hood

in garrison

intention

low beam
lower gears

moderate grade
moderate pressure

personnel
property
pump
REDUCED SPEED

second gear
shaded place
skid
skidding
stalling
straddling
supervision

BASIC MILITARY

task
third gear
tracks
turn signals

warning
wedge
windshield
wipers

MOS 13B
TASK NUMBER: 551-721-1014
TASK: Operate vehicle in sand

GENERAL

allow
angle
approach
assistance
attempt
avoid

damage
degree
determine
difficult
direct

equipment
even

follow
front

gradually
greater

insure
item

maintain
manner
movement

necessary
normally

observe
operate

performed
prevent
proper

rate
Résumé
safe
sand
sandy
select
slip
spinning
spots
steady
stuck

TIRE

UNNECESSARY
vehicle

wheel
without

BASIC MILITARY

accelerate

break new tracks
bypass

field condition
flotation

gear

rim

shifting
supervision

task
tire gage
tire pressure

windward slope

228

MOS 13B
TASK NUMBER 551-721-1015
TASK: Drive vehicle off road

GENERAL

all
assistance

conditions

damage
direct
drive

equipment

get stuck

items

manner

necessary
normally

operate

performed

safe
streams

terrain
through

varying
vehicle

weather
without

BASIC MILITARY

basic issue items

ditch

field condition
fording.

gullies

mud

^T
negotiate

[^]
off-road

ravines
rocky terrain

supervision
swamps

task

woods

MOS 13B

Task Number: 551-721-1016

Task: Drive vehicle in motor march or convoy

GENERAL

ahead
all
angle
arm

between
bike xing
body

cattle xing
circles
conditions
control

day
decrease
deer xing
divided highway
do not enter
downward
drive

elbow
engine
equipment

farm machinery
follow
front
follow
full

go
green
ground

hand
hill
horizontal

increase
items

join

keep going
keep right

lane ends
large
left
level
low clearance

maintain
merge
move

necessary
night
no bicycles
no left turn
no passing zone
no right turn
no trucks
no U turn
normally

obey
operated

palm
pass
ped xing
performed
proper
pushing motion

raise
rear
receive
recognize
red
relay
repeat
reverse
right
rotating

school
school crossing
several
shoulder
side
sideward
signal, -CO
signal ahead
signals
slippery when wet
slow
speed
speed limit
start
stop

times
traffic

turn
two way traffic

under
unless
up
utilize

vehicle
vertical

weather

yellow
yield

Task Number: 551-721-1016

BASIC MILITARY

as you were
assemble
attention

by the left flank
by the right flank

civil authorities
clockwise
close up
column
column left
column right
command
convoy
convoy commander
convoy operations

describe
designated
dismount
disregard
distance
double time

extend
extent

face
field condition
flashlight

halt
hand signals
highway warning and regulatory signs

in garrison
individual
instructions
issued

motor march
mount

open up
open vehicle
out of action

prepare
prescribed
previous

ready

rush

simultaneously
specific
speedometer multiplier

task
turrent

unit

vehicle interval

MOS 13B

TASK NUMBER 551-724-1018

TASK: Drive vehicle under blackout conditions

GENERAL

all
assistance

being
below

causing
conditions

damage
detected
drive

equipment

follow

injury
insure
item

listed
location
lower

maintain
move

necessary
night
normally

observe

performed
procedures

rear
reduced

speed

under

vehicle
weather
windshield

without

BASIC MILITARY

blackout
blackout lights

direct

field condition

operational

personnel
proper intervals

supervision

task

232

MOS 13B

Task Number: 551-721-1019

Task: Drive vehicle through contaminated area

GENERAL

all
allows
amount
apply
area
assistant^{CE}

conditions

day
drive
dusty

equipment

increase
items

minimum
move

necessary
night
normally

performed
possible
put on

rapidly

roads
rub

skin
stop

through
tree branches

under
use

vehicle

weather
wet
without

BASIC MILITARY

atom

contaminated
contamination

decontamination procedures
direct

exposed

field condition

gas
germs
guard against

hard-surface

interval

muddy

protective mask
protective ointment

safety
splash
supervision

task

MOS 13B

Task Number: 551-721-1834

Task: Operate the winch on a wheeled vehicle

GENERAL

always
applicable
assistant
attach

cautions

direct front
directions

engine
exceed

injury

leave
lock

necessary
never

observe
operate
operation

perform
place
possible
printed
provided
pull
pull out
put

read

select
situation
speed
start
stop
successfully

travel

use
unlock

vehicle

wear
without

BASIC MILITARY

accelerator
apply
anchor

basic issue item

cable
chocks

drum
drum lock

emplace
engage

gloves

handbrake

instrument panel

kink

level wind knob
lifting shackle
low

mission

neutral

operator's technical manual

personnel

rated capacity
reel in
regulate

snatch block
suitable anchor

transmission
turn

unhook
unreel
utility chain

wheeled vehicle
winch
winch control lever

winch drum clutch
winch hook
winching

MOS 13B

Task Number: 551-721-1877

Task: Operate a winch on an M548 cargo carrier

GENERAL

always
assistant
attach
avoid

capable
cautions
complete

directions

engine
exceed

injury
insure

leave
load
lock

move

never -
next to

observe
operate
operation

perform
place
possible
printed
pull out

read

select
start
stop
successfully

travel

unlock
use

vehicle

wear
without

BASIC MILITARY

accelerator
anchor
attitude

basic issue items
brakes

cable
cargo carrier

differential steering levers
direct front
disengage
drum
drum clutch
drum lock

engage

gloves

idle

kink

mission

neutral

personnel
power take-off

range
reel in

stated situation
suitable anchor

tailing out
transmission
transmission range selector
turns

unreel

warrant
winch

MOS 13B

Task Number: 191-376-3006

Task: Control entry/exit to a field storage location

GENERAL

allow
assistant

concerning
control

determine
duty

enter
entry
equipment
exit

following

identification
individual
insure
involving

lone

material
most

only
operations

performing
procedures

recognition
remain
removed
request
responsibility

satisfied

under

visual

whether
while

BASIC MILITARY

authorized
authorized individuals
authorized personnel

circumstances

designated representative

enforce
entry controller
entry control roster

field storage location

in accordance with
inadvertently

local directives

nuclear weapons

observed

personnel

regardless

two-man rule

unit commander
unit standing operating procedure

visitor control
vouched

MOS 13B

Task Number: 191-376-3005

Task: Control access to a weapon not secured within a field storage location

GENERAL

allow
area
assistant
attempt

control
controlling

described
determine

elect
equal to

following

gain
greater than

inside
instructions
insure

know

less than

minimum

physically

question

recognize
remain
required
responsibility

satisfy

visual

whether
wish

BASIC MILITARY

access
authorized
authorized individual
authorized personnel

convoy

designated representative

encompass
enforce
enforced

field storage location
firing point

identification
inadvertently
individual

^o
line individual
^
nuclear weapon

operation

positions

recognition

secured

two-man rule

unit standing operating procedure

vouched

weapon CUSTODIAN

MOS 13B

Task Number: 191-376-3001

Task: Call appropriate security reaction forces in response to an emergency situation at a field storage location and allow them entry to the FSL.

GENERAL

allow
assistant
available

call
circumstances
communications

determine

emergency
emergency situation
entry

inside

occur

performing
permitted
procedures

requires
response

use

while

BASIC MILITARY

appropriate

best means

deployment
designated representative
duty

enforced
entrance guards
entry control roster
entry controller
external security threat

field storage location

in accordance with

nature

personal recognition

regardless

security forces
security reaction forces

two-man rule

unit commander
unit standing operating procedures

MOS 13B

Task Number: 093-402-1106

Task: Fight fires involving nuclear weapons

GENERAL

accomplished
actually
adequate
all
angle
any
approach
area
assembled
assistance
assistant
available

building
burning

cases
changes
conceal
conditions
considered
continue
control
cool
copy
correctly

decision

effective
effort
entering
entire
equipment
extinguish
eyes

feet
fight
fire department
firemen
fires
first
fuel

gain
give

handling
help
hold up

immediate
immediately
include
insure
involved
involving
items

keep away

latest
liquid
lives
located

main
maintenance
maximum
meter
method
minimum

nearest
needed
nose

observe
occur
order

performed
performing
permitted
place
possible
precautions
present
prevent
proper
properly
provide
purpose

rapidly
remain
report
required
rescue

safety
same

saving
scattered
smoke
surface

throat
time
transportation

under
use

water
weather
where
worn

BASIC MILITARY

agent
alarm
alpha radiation
applicable
armament

boots
bunking clothing

carbon dioxide
clear the area
clearance distance
components
configuration
contaminated
control point

dangerous residue
directed
dry powder

earthen dams
endangered personnel
engaged
ERDA office
evacuate

firefighting
foam
fog

Task Number: 093-402-1106

TECHNICAL

hazard
helmet
high explosives

observer

projectile

in accordance with
isolate

stockpile
surety operation

military installation

nuclear

operation

personnel
procedures
protective clothing

radioactive contamination
report
run off

sandbags
security
self-contained breathing
apparatus
shielding
site
sound
spray
standard
storage

take action
task
tight fitting goggles
toxic

uphill
upwind

weapons
wet mix
withdraw

240

MOS 13B

Task Number: 051-193-1009

Task: Construct a detonating cord firing system

GENERAL

allow
almost
angles
approach
at least
attach
avoid
avoided
BACK
because
between
beyond
both
break
bring

clear *ance*
conditions
connect
connections
construct
crossing
curves
cut

destroy
directions

each
either
extra

foot
form
free

however

inch
initiation

length
line
loop

make
more

necessary
number

other
otherwise

perpendicular
point
positive

sharp
string

turn

unlimited

BASIC MILITARY

adhesive tap^E
alternate method

branch line

cap
charges
crimpers

detonate
detonation
detonating assembly
detonating cord
detonating wave
DETONATING CORD CLIPS
electric
environmental

fired
firing system

girth hatch

kink

main line

nonelectric

ring main

splice
spliced
square knot

MOS 13B
Task Number: 051-193-1012
TAsk: Detonate explosives

GENERAL

against	person
all	placing
allowing	plunge
area	properly
attempt	pull
available	push
before	quickly
box	radio transmissions
causes	releases
Completed	remove
conditions	replaced
designed	reset
determine	reusable
device	rubbing
disassembly	safety
drive	second
effectively	shouted
Electrical storm	small
enter	sorts
even	splitting
event	strong
except	take up slack
final	through
flaming	times
hand	under
head	under water
hold	use
holes	vicinity
hit	warn
in charge	warned
inserted	warning
insure	water
interior	weather
issued	within
large	without
loudly	words
making	
match	
operates	
other	
output	

Task Number: 051-193-1012

BASIC MILITARY

abrasive	shipping plug
barrel	standard blasting machines
collect	static electricity ,
combination dual	striker
command	striker assembly
completed firing system	striker retaining pin
detonate	time blasting fuse
detonation	time fuse
electric	unlighted
electrical firing circuit	vent
environmental	washer
expedient methods	waterproof fuse igniter
explosives	waterproofed
fire	WEATHERPROOF FUSE IGNITER
fire in the hole	
firing pin	
firing system	
frequency modulated	
fuse	
fuse igniter	
grommet	
ignite	
light	
lighting	
misfire	
nonelec NCOIC	
nonelectric	
nylon case	
paper tube	
percussion primer	
personnel	
plastic sealing compound	
positive method	
powder train	
power sources	
primer	
prolonged fuse retainer	
pull ring	
pull rod	
safety pin	

Mos 13B

Task # 061-272-1804

Perform a receipt inspection on the M422 projectile in the stockpile configuration.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
accountability	directives	configuration
appropriate	inspection	containers
be accounted for	local	projectile
comply	operations	receipt
conduct(v)	stockpile	seals
contained	support	serial
defect(n)	unit	
deformation	weapon	
exterior		
identical		
in accordance with		
inspect		
involved		
-missing		
notify		
numbers		
obvious		
occurs		
perform		
prevent		
rule		
rules		
safety		
structural		
transported		
type		
unpackaging		

244

Mos 13B

Task #061-272-1805

Perform emergency destruction procedures on the nuclear loaded M422 projectile.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
accessory	convoy	adapter
arrange		atomic
assistant at least	firing	
attach		blasting
	personnel	
bumping	position	cap
		caps
clear(v)	sandbag	case
complying		charges
delay destruction	tactical	clips
		components
emergency		container
estimate		cord
evacuate		crimpers
fasten final		detonating
fingers		dots
firmly		
flattened		explosives
foreign		
function		flash
		fuse
gently		
		igniters
insert		
inspect		length
investigating		loaded
materials		main
matter		misfire
minimum		
		nonelectric
notify		nuclear
object		projectile
overlap		
		ring
perform		running
preparation		
presence		socket
procedures		support
		system
rate		threaded
requirement		time-blasting
rule		
serviceable		unit
serviceability		
she		vertically

Over

245

Mos 13B
Task #061-272-1806

Unpackage the nuclear M422¹/₂ projectile

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
accessory	directives	bolt
appropriate		breechblock
assistant	fire	
available		charge
	inspection	chock
bumped		cushion
	local	
case		dashpots
comply	mission	desicant
contained		device
container	operations	disk
contents		
cover	weapons	equipped
defective		filler
dropped		fuze
equalize		horizontal
fluid		kit
immediate		leakage
in accordance with		liner
inspect		loaded
involving		locking
materials		nuclear
perform		pressure
permits(v)		projectile
prevent		propellant
refer to		receipt
reject		
remove		seals
rolling		
rules		vertical
safety		wrap
serviceable		
tone		
unpackage		
visually		

Mos 13B
Task #061-272-1807

Set the fuse timers.

Gen. Eng.

accuracy
assistant

container
continue
correct

date

equipment

identical

knob

maintenance

note(v)

obtain

pass

reject
required
remaining
rules

safety
second
special

tool

upper

verify

Basic Mil.

directives

local

procedures

weapons

Tech.

aligned
assembly

counterclockwise

dial

fixed
fuse

graduation

indicator

kit

line
log

mark

scale
set
setting

timers

verified

zero

Mos 13B
Task #061-272-1808

Install the ignition system and load the M422 projectile into the howitzer

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
container		accessory
exposed		base
facing		body
		breechblock
improper		charge
in accordance with		components
incorrect		
indications		disk
insert		
install		flush
		fuze
opening		
parts		gage
performed		holder
press		horizontal
properly		
rear		igniter
reject		ignition
specified		load
		nuclear
thread(v)		
tighten		pin
tightly		plug
		projectile
unpackaged		propellant
		spanner
		support
		system
		thread
		wrench

Mos 13B

Task #061-272-1809

Perform changed firing procedures on the M422 projectile.

Gen. Eng.

assistant
authority

cancel
check
comply
contained

in accordance with

malfunction

perform

readied
reinstall
rules

safety

tool

Basic Mil.

firing

mission

operations

procedures

tactical

weapon

Tech.

base

changed

flush

gage

ignition

kit

pin
plug
projectile

system

timers

Mos 13B
Task #061-272-1810

Extract the M422 projectile from the Howitzer using the H4172.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
approximately	directives	assembly
assistant		
attach	local	base
		bearing
comply	procedures	breech
depress	weapons	chamber
		clockwise
in accordance with		counterclockwise
place (v)		elevation
position(v)		engage
		extract
rammed		
receive		howitzer
		kit
special		
tightening		mils
tool		
		pins
		plates
		plug
		projectile
		retainer
		rod
		roller
		seats(v)
		support
		thread
		thrust
		transducer
		tray
		tube
		wrench

Mos 13B
Task #061-272-1811

Extract the M422 projectile from the Howitzer using the H4277 extractor.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
aid(v)	directives	assembly
approximately		
avoid	local	bar
		base
dust	weapons	breechblock
		bumper
exceed		bushing
face		chamber
further		
		disassemble
hole		
		elevation
in accordance with		engage
insert		extract
install		
		fingertight
necessary		
		guide
overload		
		hose
rammed		howitzer
rear		
release		key
remove		kit
rules		
		loader
safety		
secure		mils
sharp		
slide		pin
snug		plug
special		projectile
storage		PSI
		pump
tighten		
tone		ratchet
turn		rod
warning		screw
		slab
		threadnut
		value
		wedge
		zero
		zone

Mos 13B
Task #061-272-1812

Remove the ignition system from the M422 projectile

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
assistant	directives	assembly
comply	local	band
in accordance with	operations	clockwise
insert	procedures	disk
install	weapons	extracted
involving		fuze
loose		howitzer
protective		ignition
remove		kit
rules		projectile
safety		propellant
tool		system
		tray
		wrench

Mos 13B

Task #061-272-1813

Repackage the nuclear loaded M422 projectile

Gen. Eng.

annotate
assistant

comply
contained
container

equipment

fixed

knob

maintenance

rammed
repackage
rules

safety
seal(v)
special

tape
tools

verify

Basic Mil.

directives

local

operations
procedures

support

units

weapons

Tech.

accessory
aligned

case
counterclockwise

dial

fuze

ignition

loaded
log

mark

nuclear

pressure

scale
sensitive
setter
setting
system

timers
tray

Mos 13B

Task #061-272-1814

Perform prefire operations on the M424 projectile.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
accuracy	directives	align
assistant		assembly
attached	local	atomic
bumped	operations	chock(v)
container		configuration
contents		counterclockwise
dropped		dial
fixed		explosive
handle		exudation
identical		fuze
install		gasket
knob		graduation
perform		kit
prevent		nose
reject		ogive
required		plug
rolling		prefire
special		projectile
storage		rotation
tight		scale
tool		seizing
verify		setter
		sling
		spanner
		thread
		wrench

Mos 13B
Task #061-272-1815

Perform changed firing or cancelled firing procedures on the M424 projectile.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
assistant attempt	ammunition authority	assemble
cancelled	directives	changed conventional
disposal	local	disassemble
in accordance with initially	mission	explosives extract. . . extractions
malfunction	personnel procedures	firing fuze
notify	tactical	kit
ordance	weapons	ogive
perform		projectile
readied reinstall reject remove result(n)		rammed
specified		set(v)
tool		timers

Mos 13B
Task #061-272-1804

270 PERFORM A RECEIPT INSPECTION ON THE M454
PROJECT

Gen. Eng.

accounted for
assistant

check
comply
container
contents

damage
defect
deformation

exterior

identified
inspect
insure
involving
item

missing

obvious

perform

reject
report(v)

transport

Basic Mil.

directives

inspection

local

operations

procedures

Tech.

Howitzer

projectile

receipt

seals

256

Mos 13B
Task # 061-270-1805

Perform emergency destruction procedures on the M454 projectile

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
adjacent	convoy	adapter
allow		
assistant	field	base
attach		blasting
	operations	burning
blow		
bumping	personnel	caps
	procedures	clips
cemented		components
complying	tactical	connections
construct		cord
contact	weapons	crimpers
container		
		depressing
depending		destruction
desired		detonating
		distance
emergency		
enter		fuse
estimate		
evacuate		igniters
		initiation
failure		
fasten		knot
final		
fingers		length
firmly		
flattened		main
force		misfire
foreign		
function		nonelectric
		nuclear
gently		nylon
holding		overlap
inserting		pile
		projectile
location		
		rate
material		ring
minimum		
		strips
never		socket
overhand		tape
		threaded
pair		time-blasting
(OVER)		unit

Mos 13B
Task # 061-272-1806

UNPACKAGE THE M454 PROJECTILE

Gen. Eng.

appropriate
assistant

catch
comply
contained
container
cover

hang

in accord with
involving

raise
remove
rules

secure
special

tool

unpackage

vent(V)

Basic Mil.

directives

local

operations

rear

weapons

Tech.

chain
clamp

kit

projectile

receipts

strap

vertical

web

Mos 13B

Task #061-270-1816

Install the fuze on the M454 projectile

Gen. Eng.

assistant

comply
container

equipped

install

loosen

refer to
remove
rules

safety
securely
shipping
tighten
tool

Basic Mil.

procedures

weapons

Tech.

aline
assembly

cable

device
disconnect

fuze

kit

locking

marks

plug
projectile

rectangle
retaining
ring

test

vertical

wrench

Mos 13B
Task # 061-270-1817

Set the fuze option switch and sequential timer on the M454 projectile

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
assistant	directives	fuze
	dud	
comply		kit
contained	local	
continue		option
	operations	
dud		projectile
during	procedures	
		set
fails	weapons	setter
		setting
involving		switch
operate		timer
option		
produce		
reject		
rule		
sequential		
tone		
turn		

Mos 13B

Task #061-270-1818

Load the M454 projectile into the Howitzer

Gen. Eng.

aid assistant

comply container

device

grasp

handling hang

installed
involving

lower(v)

position prepare

remove
rules

safety
specified

transfer

Basic Mil.

directives

local

operations

procedures

Tech.

changes
charge
clamp

fuze

horizontal
howitzer

load
loading

option

pressure
projectile
propellant

sensitive
sequential
set
switch

tape
thread
timer
tray

vertical

Mos 13B

Task # 061-270-1809

Perform changed firing procedures on the M454 projectile.

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
applicable	mission	dial
assistant		
authority	operations	fire
		fuze
cancel	procedures	
comply		kit
	tactical	
involving	weapons	option
		projectile
malfunction		
		ramming
notify		readied
perform		sequential
		setting
ramming		switch
requirement		
result		timer
special		vertical
tool		
turn		

262

Mos 13B
Task # 061-269-1819

Extract the M454 projectile from the M114 or M114A1 towed howitzer

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
assistant attached	weapons	assemble assembly
device		bearing
extract		counter clockwise
in accord with install involving		elevation howitzer
place(v)		kit
released remove rules		loading mils
secure		plates plug pressure-sensitive projectile
tone		rammed retainer rod tape threaded thrust towed tranducer ? tray
withdraw		unthread wrench zero

Mos 13B
Task #061-270-1820

Extract the M454 projectile from the M 109 self-propelled howitzer

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
approximately	directives	assembly
area		
assistants	local	base
		bearing
blanket	operations	breech
clear(v)	procedures	cab
comply		centered
contained	weapons	clamped
		counterclockwise
either		
		elevator
facing		
ground		handling
guido(v)		howitzer
install		kit
involving		
locked		loading
lowered(v)		
		mils
material		nuclear
place(v)		plate
prevent		plug
		pressure
released		projectile
restrain		
remove		rammed
rolling		rear
rules		rod
safety		self-propelled
special		sensitive
suitable		support
		system
tarpaulin		
tool		threaded
		trainer
		transducer
		transducer
		tray
		tube
		turret
		wrench

Mos 13B

Task # 061-270-1821

Safe the fuze and sequential timer

Gen. Eng.

assistant

catch
chain
container
comply

device

extracted

hang

involving

place(v)

raise
rear
rules

safety
secure
special

tool

Basic Mil.

directives

local

operations

weapons

Tech.

clamp:
cradles

dial

foot
fuze

handling
howitzer

kit

option
pounds
projectile

safe
screws
sequential
set(v)
switch

timer
torque

web

Mos 13B 061
Task # 671-270-1822

Remove the fuze and repackage the projectile

<u>Gen. Eng.</u>	<u>Basic Mil.</u>	<u>Tech.</u>
annotate	direct	align
	directives	assembly
comply		
contained	local	bolt
container		
	operations	clamp
device		connectors
	procedures	
equipped	support	envelope
insert	unit	foot fuze
install		fuze
involving		
	weapons	kit
loosen		
		marks
packing(n)		mate
reject		plug
remove		pounds
repackage		prefire
rules		projectile
safety		rammed
seal(v)		rectangular
secure		retainer
special		
		safed
test		screws
tighten		sequential
tool		slots
		strap
unbuckle		
		tape(n)
		timer
		torque
		vent
		vertical
		web
		wrench

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MOS 13B

Task Number: 061-266-1450

Task: Maintain assigned field artillery mechanic tool kit

GENERAL

accidental
appropriate
available

chipped
clean
complete
completeness
copies
correctly
cover
cutting edge

dull

each
exist

injury
inspect
install
insure

maintain
make
marked
missing

prevent
proper
properly

repaired
replaced
required
retained

store

tight
tool

use

BASIC MILITARY

assigned

grind

hand receipt

in accordance with
inventory

lubricant
lubricate

screwdrivers
serviceability
sharpen
store
supply catalog

unit standing operating
procedure
unserviceable

TECHNICAL

chisels
cleaning solvent

drifts

field artillery

hammer handle

mechanic tool kit
motor sergeant
mushroomed head

punches

shortage annex

utility grinder

wedges

MOS 13B

Task Number: 061-305-6005

Task: Determine the national stock number (NSN) for a repair part

GENERAL

BASIC MILITARY

TECHNICAL

appropriate

functional group

gun

belongs

item number

howitzer

contains

national stock number

description
determine

parts manual
PLL clerk

find

stock number

identify
illustration

unit

listing
locate

minutes

note

page
paper
part
pencil
piece

record
repair

table of contents
type

use

269

MOS 13B

Task Number: 061-266-1451

Task: Perform preventive maintenance checks and services on a howitzer or gun

GENERAL

actions
appropriate
assistance

below

complete
correctly

found

listed

monthly

necessary

parts
perform
prescribed

repair
required

sections

tools
type

weekly

BASIC MILITARY

bimonthly

cab
column
components

in accordance with

lubricants
lubrication
lubrication orders

preventive maintenance checks
and services

quarterly

semi-annual

table
technical manuals

unit

weapon

TECHNICAL

breech ring and block

crew

evacuator

fire control instruments
firing mechanism

gun
gun tube

howitzer

muzzle brake

operating cam

rammer reliability checks
recoil mechanism
sighting and fire control
equipment

torque key

TURRET

269

MOS 13B

Task Number: 061-266-1452

Task: Purge and charge fire control equipment

GENERAL

accessory
adapter
all
allow
attach

check
correctly

determine

end

free

install
INSTRUMENT
LONGER
minute
moisture

necessary

open

piece
prepared
pressure
procedure

reads
refer to
remove
required
requires
rotate

through
tools
traces
typical

until

visible

whichever
WITHIN

BASIC MILITARY

applicable

component
counter clockwise

fire control equipment

technical manuals

weapon

TECHNICAL

charge
charging (pressure)

entrance port
entrance port screw
entrance port valve cap
exhaust port plug
exhaust port screw

hose assembly

low pressure gage

nitrogen tank

pounds per square inch
pressure regulator valve
purge
purging
purging pressure
purging time

sealing compound

time duration

270

272

MOS 13B

Task Number: 061-267-1453

Task: Repair wheel hub and bearing ^G/_A group assemblies on the M101A1/M102

GENERAL

adjust
assemble
assistant
authorized

before

cause
clean
cleaning
coat
come out
completely
correctly

defective
deflated
determine
disassemble
dry

faulty

get

identify
inside
inspect
install
insure

malfunction

necessary

other

page number
part
parts
perform
put

raise
remove
repair
replace
replaced
replacing
replacing
required
right

screw
side
thin
through
thoroughly
tire
tools
tube

unscrew

wheels

BASIC MILITARY

cleaning solvent

grease
greasing

technical manual

wear

TECHNICAL

axle

bearing
bearing assembly
bearing group assembly

chipping
cone and rollers
corrosion
cotter pin

dismount
drum

firing position

groups

howitzer
hub
hub assembly

inner rolling bearing cup
inner seal and bearing
item number
LEFT-HAND THREADED BOLTS
national stock number
nut

oil seal
outer bearing
outer bearing cup

pack
plug
ALL CLERK
scoring
spindle

towed howitzer

washer
wheel and hub assembly
wheel and tire assembly
wheel hub and bearing group
wheel hub assembly
WTR grease

271

MOS 13B

Task Number: 061-267-1454

Task: Repair breechblock operating group on the M101A1 howitzer

GENERAL

allow
assemble
assistant

brakes

cause
clean

damaged
defective
determine
disassemble
disassembly

fall
faulty

get

identify
inspect

malfunction

necessary

page number
part
parts
procedures
properly

repair
replace
remove
reversing

set

through
tools

BASIC MILITARY

authorized
in accordance with

lubricate
lubrication order

TECHNICAL

breechblock
breechblock operating group
brief

detent

howitzer

item number

nature of problem
national stock number

PLL clerk

seat
section chief
spring

trigger shaft
trigger shaft detent hand.
TRIGGER SHAFT DETENT

272

274

MOS 13B

Task Number: 061-267-1455

Task: Adjust the brakes on the M101A1/M102

GENERAL

across
adjust
adjustment
amount
appropriate
approximately
assistance
attach
attain
ATTAINED
center
check
clear
correct

determine
disconnect
distance
down

enough
equal

further

ground

installing

length
lengthen
lock
loosely
loosen

make
minutes
move

necessary
need

obtained

place
prevent
proper
properly
pull

reconnect

reference
released
remove
repeat
replace
required

screw
securely
shorten
slide
slippage
steps

tighten
tools
touching
try

until
up
use

wheels

BASIC MILITARY

applied

brakes

set

technical **MANUAL**

weapon

TECHNICAL

axle

blocking
bolt
brake camshaft
brake lever group
brake rod

cam shaft
cap screw
carriage
castellated nut
chalk line
clevis
crew
COTTER PIN
drag

engages

firing platform

headed straight pin
howitzer

jack up

lever

nut

pawl
plate

rack
ratchet rack
ratchet rack plate

shaft
slippage
threaded brake rod

MOS 13B

Task Number: 061-267-1456

Task: Drain/fill recoil oil on the M101A1 or M102 howitzer

GENERAL

air
appear
applicable
area
avoiding

before
both

catch
clean
connect
container
correctly
couple

described
drain
dirt free

face
fill
following
force
formation

evidence
HANDS
hold
hole

include
insert
inspect
install

let
level
loosen

minute

necessary

oil

pour
procedures

reinstall
remove
replace

rise
stream
suitable

tighten
tools
turn

unscrew
until
use

BASIC MILITARY

counterclockwise

handle

lubrication order

technical manual

TECHNICAL

air bubbles

barrel

cap

filler cavity
filling and draining hose
filling hole
filling plug
flush
front head

gun

head
howitzer
hydraulic fluid

liquid ^{RELEASING} recessive tool
locking screw

nitrogen
nozzle

oil filling hole
oil (filler) gun
oil index

plug
protective cap
purge

recoil mechanism
recoil oil
recoil oil gun
recuperator cylinder

spurts

tube

unit

wrench

274

MOS 13B

Task Number: 061-267-1457

Task: Repair breechblock operating group on the M102 howitzer

GENERALalready
assemble
authorized

brief

clean

defective
determine
disassemble

find

get

identify
inspectmalfunction
malfunctioningnature
necessary

outlined

page number
parts
problem
properlyremoved
repair
replacethrough
toolsBASIC MILITARY

in accordance with

lubricate
lubrication order

specified

technical manual

TECHNICALbreechblock
breechblock operating group
breech ring

faulty

howitzer

item number

mechanism

national stock number

PLL clerk

section chief

MOS 13B

Task Number: 061-267-1458

Task: Check timing of variable recoil system on the M102 howitzer

GENERAL

area

between

check
clearance

elevate
exists

fall

improperly
indicated
insure

maximum
minutes

necessary

painted
perform
properly

ranges
remain
repair

throughout
tools
turn in

within

BASIC MILITARY

MIL

TECHNICAL

aligned

cannon
center punch marks
control arm
control arm stop

depress
direct support maintenance

groove

howitzer

mechanism

recoil control arm

spline shaft
TIMED
timing

variable recoil actuating
mechanism
variable recoil system

S 13B

RESERVE

Task Number: 061-269-1459

Task: Establish recuperator fluid on the M114A1 howitzer

GENERALattach
attachedcease
correct
containerdetach
drain
dropend
establishfarthest
fluid
finger

gently

inch
include
install
installinglevel
looselymeasures
minutes
moved
moves

necessary

other

piece
place
protrude
pumpingremoving
requiresscrew
service
small
stoptap
tighten
tools

unscrewing

wood
workBASIC MILITARY

lubrication order

technical manual

TECHNICALadapter
filling hole
filling valve plughose
howitzer
hydraulic fluid

index

liquid releasing and filling
tool assemblyoil filling plug adapter
oil hose
oil index
oil index housing
oil pump
outward positionplug adapter
pump
purgerecuperator
recuperator fluid reserve
recuperator reserve
reserve fluid
replenish

trickle

valve plug

MOS 13B

Task Number: 061-269-1460

Task: Maintain the replenisher on the M114A1 howitzer

GENERAL

adding
against

block

end
establish

fluid
flush
free

hammer
hard wood

inch
indicated
insert

light

maintain
minutes
moves

necessary
normal
notify

opening
operation
outlined

position
proper
properly
pull

read
~~read~~ *REAR*
release
remove
requires

screwing
service

tap
test
through
tools

unscrew
within
WORKS

BASIC MILITARY

lubrication order

technical manual

TECHNICAL

direct support mainten

graduation

howitzer
hydraulic fluid

liquid releasing and fi
tool

liquid releasing and fi
tool assembly

oil pump

piston
plug adapter

replenisher
replenisher fluid reser
replenisher oil filling
plug
replenisher piston
replenisher piston guid
reserve
rule

valve plug hole

278

OS 13B

Task Number: 061-269-1461

Task: Repair the cannon breech mechanism on the M114A1 howitzer

GENERAL

above
accidental
adhere
allow
assemble
assist
assistance
attention
authorized

before
brief

closed
closing
considerations
contact

defective
determine
disassemble
disconnect
drop

fall
faulty
force

identify
implementing
insert
inspect
installation
installed
insure

malfunction
material
mechanism
movement

nature
necessary

object

page number
parts
position
precautions
problem

procedures
properly
protect

rearward
removal
remove
repair
replace
results
reverse

safety
secured
similar
slight
special
still
swing

through
tools

unlocked

BASIC MILITARY

in accordance with

lubricate
lubrication orders

technical manual

weapon

TECHNICAL

axe handle

bore
breech
breechblock
breechblock assembly
breechblock carrier
breechblock driver
breechblock operating handle
breechblock operating handle
crankshaft
breechblock rotating roller
breech mechanism
breech recess

cannon
carrier
cleaning staff
counterbalance mechanism
counterbalance piston rod

direct support maintenance
personnel
disc

facilitate
firing mechanism
firing mechanism housing
firing mechanism safety latch
plunger

gas-check pad

hinge pin
hinge pin driving washer
howitzer

item number

national stock number

obstructing parts
obturator spindle
operating handle latch

pad rings
personnel
pin
PLL clerk

recess
rings

Task Number: 061-269-1461

safety latch
section chief

threads

280

MOS 13B

TASK NUMBER: 061-269-1453

TASK: Repair wheel hub and bearing group assemblies on the M114A1

<u>GENERAL</u>	<u>BASIC MILITARY</u>	<u>TECHNICAL</u>
above.	authorized	air brake drum
assemble	greasing	bearing group
assistant	technical manual	bearing group assembly
cause		carriage
cleaning		cone
correctly		drum assembly
defective		group
determine		hexagon head cap
disassemble		screws
faulty		hexagon plain nut
get		hub
hold		item number
identify		locking ring
malfunction		lock washers
men		national stock number
necessary		packing retainer
outwardly		PLL Clerk
page number		retaining nut
parts		rollers
perform		WHEEL AND TIRE ASSEMBLY
procedure		wheel hub
remove		wheel hub assembly
repair		wheel lock
repairs		wheel spindle
replaced		
replacing		
required		
reverse		
should		
sliding		
through		
tools		

MOS 13B

TASK NUMBER: 061-269-1455

TASK: Adjust the brakes on the ~~M114A1~~ M114A1

GENERAL

adjust
adjustment
appropriate
assistance

between

check
clear
correct

freely
fully
further

greater
ground

inch
insert

minutes

need
necessary

obtained
open

position
properly

raise
readings
release
remove
rotate

screw
spread
stops

then
through
tools
turn
turning

until

wheels

BASIC MILITARY

technical manual

TECHNICAL

back off
brakes
brake adjusting screw
brake drum
brake lining

carriage
clearance
crew

drum

feeler
firing jack

gage

hand brakes
~~howitzer~~
HOWITZER
inspection hole

slack adjuster

thickness gage
tire assembly
trails

wheel assembly

MOS 13B

TASK NUMBER: 061-270-1462

TASK: Adjust the rammer control assembly on the M109/M109A1 Howitzer^zGENERAL

above
adjust
adjustment
after
another
approximately

check
click
close
connect^{CONDITION}
connector
correctly

delay
determine
disconnect

equal

heard

instant
LENGTHEN
latching
located
loosen

minutes

necessary
need

open
original

place
position
prepare

repeat
return

second
set
setting
shorten
slight
steps
swing

tools
turn
turn off
turn on

unlatch
use

BASIC MILITARY

clockwise
counterclockwise
technical manual

TECHNICAL

align
alphabetical dial
assembly

breech
breech block

control assembly

electrical connector

gunner's control switch

Howitzer^z

latched position

numerical dial

operating position
RAMMER CONTROL ASSEMBLY
rammer
rammer control assembly
cover
ramming cycle
rollover position

solenoid
stop watch
stowage position

tab
thumbscrews
time interval

vernier dial

Task Number: 061-270-1463

right gunner's control handle

sight gage

~~the~~ TEE

traverses

traversing motor drain tube

tube
valve

284

MOS 13B

Task Number: 061-270-1464

Task: Repair components of the hydraulic power pack in the M109/M109A1 howitzer

GENERAL

assemble

bottom

cause
charge
clean
components
correctly

defective
describe
determine
disassemble
discharge
disconnect
drain

get
identify
inspect
install

nature -
necessary

page number
parts
problem
procedures

rear
removal
remove
repair
replace
reversing
right

screw

through
tools
top

unscrew
use

worn

BASIC MILITARY

authorized

in accordance with

technical manual

TECHNICAL

access cover
accumulator
assembly

bolts

cab
clamp

dry cleaning solvent

fluid level indicator

gage

harness female plug
howitzer
hydraulic fluid
hydraulic fluid level bayonet
gage

hydraulic power pack
hydraulic power pack assembly
hydraulic switch
hydraulic tube nut
hydraulic tubes and fittings
HYDRAULIC SYSTEM
indicator
item number

mineral spirits paint thinner

national stock number
nut

PLL clerk
power pack group
pressure gage
pressure switch

reservoir strainer

section chief
sight gage
sight gage assembly
sight gage tube
special box wrench
strainer
strainer screen
switch

tubes and fittings

MOS 138

Task Number: 061-270-1465

Task: Bleed and charge the elevating/equilibrating hydraulic system of the M109/M109A1 howitzer

GENERAL

accomplished
air
allow

below

catch
close
complete
completion
container
correct

easily
elevation

far
fast
fill
flow

insure

minutes

necessary

open
operate
on position

place
pressure
procedures
proper
properly
pumped

readings
requires
repeat
return

slowly
smoothly
still

tools
turn
turned

under
until
upon

when
within

BASIC MILITARY

in accordance with
technical manual

TECHNICAL

air-free fluid

bleed

charge

depression
discharge
drain valve

elevating cylinder
elevating hydraulic system
~~equilibrating hydraulic system~~
equilibrator
equilibrator hydraulic sys
equilibrator manifold and
hydraulic lines
equilibrator valve
erratic

fill line
fluid
fluid level

~~GLOBE~~
~~globe~~

gunner's control switch

hand pump
howitzer
hydraulic fluid
hydraulic fluid pressure
hydraulic power pack fluid

manifold
master switch

power pack reservoir

reservoir

sight gage
system drain valve

travel lock
tube

MOS 13B

Task Number: 061-270-1466

Task: repair components of the M109/M109A1 howitzer cab electrical system

GENERAL

accumulation
across
appropriate
another
assemble

bending
broken

cause
clean
collect
components
contact
correctly

damage
defective
describe
determine
dirt
dry
dull
dust

flat
free

hands
held

identify
include
inspect

metal
minor
NECESSARY
old

page number
parts
problem

remove
repair
replaced

screws
sheet
surface

through
tightly
tools

use
used

wires
wiring
working

BASIC MILITARY

authorized

grease

lubricant

technical manual

TECHNICAL

brackets
burrs

cab
cab power relay box
cab slip ring contact arm
assembly

castings
cracked
cracks
crocus cloth
CORROSION

die
dry cleaning solvent

electrical system

fine mill
flexible hoses
foreign matter
frayed

grit
ground straps
gunner's selector switch box
assembly

howitzer

insulation
item number

low-pressure compressed air

machine surfaces
magnetic brake switches
mineral spirits paint thinner
multimeter

national stock number
nicks

panels
PLL clerk

raised metal
rammer control box

seals
section chief
stripped threads
supports

Task Number: 061-270-1466

tap
tapped holes
terminals
threads

warpage
warping

MOS 13B

Task Number: 061-270-1467

Task: Replace solenoid or combined solenoid and hydraulic motor bypass valve in the M109/M109A1 howitzer

GENERAL

assemble

base

cause

combined
components
connector
correctly

defective
describe
determine
disconnect

get

identify
inspect
install

located

nature
necessary

off

page number
parts
position
problem
procedures
pressure

removal
remove
repair
replace
reversing

side

through
tools
top
turn

BASIC MILITARY

authorized

in accordance with

technical *MANUAL*

TECHNICAL

bypass *VALVE*

discharge

gunner's control switch

howitzer
hydraulic fluid
hydraulic motor bypass valve
hydraulic system
hydraulic tubes

item number

lock washers

national stock number
nuts

PLL clerk

section chief
socket head screws
solenoid

tees

289

270

MOS 13B

Task Number: 061-270-1468

Task: Replace solenoid or combined solenoid and rammer control valve in the
M109/M109A1 howitzer

GENERAL

assemble

base

cause

combined

components

connector

correctly

defective

describe

determine

disconnect

get

identify

inspect

install

nature

necessary

page number

parts

pressure

problem

procedures

removal

remove

repair

replace

reversing

screws

through

tools

BASIC MILITARY

authorized

in accordance with

technical manual

TECHNICAL

discharge

hoses

howitzer

hydraulic fluid

hydraulic system

item number

national stock number

PLL clerk

rammer control valve

section chief

socket head screws

solenoid

290

MOS 13B

Task Number: 061-270-1469

Task: Replace the manual elevation accumulator assembly in the M109/M109A1 howitzer

GENERAL

assemble

below

bottom

cause

check

correctly

cover

defective

describe

detected

determine

disconnect

drain off

fluid

get

identify

inspect

install

loosen

malfunctioning

movement

nature

necessary

off position

page number

parts

pressure

pressurized

problem

procedures

range

removal

remove

repair

replace

reversing

rotating

SECURITY

slowly

through

tighten

tools

turn

until

BASIC MILITARY

authorized

counterclockwise

technical manual

TECHNICAL

accumulator

accumulator assembly

bleed

charge

elevating cylinder

elevation cylinder

elevation hand pump handle

gunner's control switch

howitzer

hydraulic fluid

hydraulic tubes

item number

manual elevating system

manual elevation accumulator

manual elevation accumulator

assembly

manual elevation ports

manual elevation system

master switch

national stock number

nitrogen pressure

nuts

PLL clerk

pounds per square inch

pressure valve

section chief

tire pressure type gage

valve cap

291

299

MOS 13B

Task Number: 061-270-1470

Task: Repair gunner's control or cab power pack tubes and fittings to gunner's control on the M109/M109A1 howitzer

GENERAL

assemble

cause
components
correctly

defective
describe
determine
disconnect
drain

get

identify
inspect
install

left

nature
necessary

off position
only

page number
parts
problem
procedures

refill
removal
remove
repair
replace
reversing
right

screws
securing

through
tools
turn

BASIC MILITARY

authorized

in accordance with

technical manual

TECHNICAL

cab power pack tubes
control

discharge

female plug
fittings

gunner's control
gunner's control switch

howitzer
hydraulic fluid
hydraulic system
hydraulic tubes

item number

mounting bracket

national stock number

PLL clerk

section chief

tubes

MOS 138

Task Number: 061-270-1471

Task: Check the main accumulator nitrogen precharged pressure in the M109/M109A1 howitzer

GENERAL

BASIC MILITARY

TECHNICAL

amount	technical manual	cab
below		cab power switch
between		cab traversing lock handle
check		charge
disconnect		circuit connector
drops		fluttered
left		flutters
located		gunner's control
locked		gunner's control handle
minutes		gunner's control switch
move		howitzer
near		hydraulic fluid
necessary		hydraulic system
notify		main accumulator
off		main accumulator nitrogen
on		precharged pressure
on position		manual
position		master switch
properly		needle
range		pounds per square inch
read		power-manual selector lever
reading		precharged nitrogen
rear		pressure gage
reconnect		pressure gage needle
right		recharge
slowly		selector switch
switch		support maintenance
tools		system
turn		
until		
watch		

MOS 13B

TASK NUMBER: 061-270-1472

TASK: Replace Solenoid or Combined Solenoid and Elevation Selector Valve in the M109/M109A1 Howitzer.

GENERAL ENGLISH

assemble
base
cause
components
connector
correctly
defective
describe
determine
disconnect
get
identify
inspect
install
nature
necessary
off position
page number
parts
pressure
problem
procedures
removal
remove
repair
replace
reversing
screws
securing
through
tools
top
turn

BASIC MILITARY

as authorized
in accordance with
technical manual

TECHNICAL

combined solenoid and
elevation selector
valve
discharge
gun mount
gunner's control
switch
howitzer
hydraulic fluid
hydraulic system
hydraulic tubes
item number
lock washers
national stock number
platoon clerk
section chief
socket head screw
solenoid
valve

MOB 13B

TASK NUMBER: 061-270-1473

TASK: Repair Hydraulic Tubes and Fittings to Elevation and Equilibrator Systems
on the M109/M109A1 Howitzer.

GENERAL ENGLISH

assemble
cause
correctly
defective
describe
determine
drain
fill
get
identify
inspect
nature
necessary
page number
parts
problem
remove
repair
replace
replaced
through
tools

BASIC MILITARY

authorized
in accordance with
technical manual

TECHNICAL

accumulator
discharge
elevation system
equilibrator system
fitting
howitzer
hydraulic
hydraulic fluid
hydraulic system
item number
national stock number
Pl1 clerk
section chief
tube

295

MOS 13B

TASK NUMBER: 061-270-1474

TASK: Repair the Cab/Turret Wiring Harness of the M109/M109A1 Howitzer

GENERAL ENGLISH

appropriate
assemble
breaks
broken
cause
connectors
cracks
damaged
defect
defective
describe
determine
disassemble
exists
following
get
identify
inspect
measure
nature -
necessary
page number
parts
portion
problem
properly
repair
replace
restore
specific
through
tools
use
wires

BASIC MILITARY

authorized
in accordance with
parts manual
technical manual

TECHNICAL

C-washer
CAB wiring harness
Cable(s)
coupling
coupling nut
evidence
female cable connector
female type
ferrule
frayed
grommet
groove
howitzer
insert
insulation
insulator
item number
male cable connector
male type
multimeter
national stock number
nut
overheating
panel mounting receptacle
physical
pin contacts
plug clerk
plugs
section chief
self-propelled
shell
shells
sleeve
socket contacts
terminals
terminal type cable connector
turret wiring harness
voltage
washer
wiring harness
working order

REQUIRED

PLL

MOB 13B

TASK NUMBER 061-270-1461

TASK: Repair the Cannon Breech Mechanism on the M109/M109A1 Howitzer.

GENERAL ENGLISH

assemble
assistant
defective
determine
disassemble
faulty
find
get
identify
inspect
insure
malfunction
nature
necessary
page number
parts
problem
properly
repair -
replace
tools

BASIC MILITARY

appropriate
authorized
in accordance with
lubrication order
lubricated
outlined
parts manual
technical manual

TECHNICAL

BREECH MECHANISM
breech block operating
group
brief
cannon
howitzer
item number
national stock number
PAL clerk
section chief

300

MOS 13B

TASK NUMBER: 061-272-1474

TASK: Repair Loader and Rammer Pivot Arm on the M107/M110 series.

GENERAL ENGLISH

all
assemble
breaks
clean
complete
defective
describe
disassemble
dry
follow
functioning
get
identify
include
inspect
install
installation
insure
kit
minor
necessary
operate
outlined
part *PAGE NUMBER*
problem
procedures
properly
related
relieve
removal
remove
repair
replace
several
signs
through
times
use *TOOLS*
wear

TECHNICAL

arm splines
bearing surfaces
bleed
burrs
bushings
bushing replacer and
handle
cap screw
chipping
control handles
cracks
cycle
deformation
dry-cleaning solvent
flat washing *ER*
galling
gun
howitzer
hydraulic pressure
item number
loader
lock washer
loader-rammer housing
low pressure compressed
air
lower bushing
loader and rammer
subsystem
loader and rammer *ER*
pivot arm
mineral spirits paint
thinner
modes
national stock number
pits
pivot arm
plate
PLL ~~part~~ clerk
pivot arm retainer
rammer pivot spur
gear
pressurize
rammer pivot arm

BASIC MILITARY

grease
in accordance with
lubricate
technical manual

TECHNICAL

rammer traversing cylinder
scratches
section chief
self-locking nut
splines
tooth damage
trunnion support
upper bushing

Rammer and Loader Control
Rammer

NOS 13B

Task Number: 061-272-1475

Task: Replace components of the loader and rammer on the M107/M110 series

<u>GENERAL</u>	<u>BASIC MILITARY</u>	<u>TECHNICAL</u>
all	in accordance with	arm
assemble		
	series	catch
broken		control handle
	technical manual	cracked
clean		cycle
components		
		deformed
damage		die
defective		dry cleaning solvent
describe		
determine		grips
disassemble		grooved pin
dry		grooved pin hole
		gun
entire		
		handcrank
fails		handcrank arm retainer
follow		hoses
		howitzer
get		
		item number
hold		
		lift cylinder hydraulic hose
identify		loader
include		loader control valve
inspect		
		mineral spirits paint thinner
metal		
		national stock number
necessary		
		pin
page number		PLL clerk
parts		projectile lifting tray
problem		
procedures		rammer
properly		residual pressure
		retainer
relieve		
removed		sealing compound
require		section chief
repair		serviceability
replace		slide
replacement		spring
		straight headed pins
securely		
several		thread chaser
		threads
through		tray
times		through
tools		
		wing nut
wear		
wipe		
worn		

299

MOS 13B

Task Number: 061-272-1476

Task: Charge the accumulator gas bottle on the M107/M110 series

GENERAL

BASIC MILITARY

TECHNICAL

achieve
adjust
air
average

series

technical manual

accumulator
accumulator drain valve
accumulator gas bottle
adapter valve
adjusting screw

bottle

close

bleed off
bleed valve

desired

cap
charge
charging equipment
charging pressure
charging regulator assembly

engine
established
expected

include
install
insure

cylinder

filler valve

minutes
momentarily

gage
gun

necessary

hoses
howitzer
hydraulic pump-PTO-clutch switch
hydraulic system

off
on
open
outdoor

main system
master switch

prepare
pressure
properly

nitrogen

reading
relieve
remove
removing
required

oil pump motor switch
overcharged

pounds per square inch
pressure regulator assembly

screw
select
set
setting
slightly
slowly
start

regulator
regulator assembly SHUTOFF VALVE
regulator bleed valve

safety relief valve
shutoff valve

tube

temperature
tighten
tools
turning

valve

unscrew
until

withstand

300

IOS 13B

ASK NUMBER 061-272-1477

SK: Replace Rammer Traversing Cylinder and related parts on the M107/M110 series.

GENERAL ENGLISH

broken
cause
clean
complete
defective
describe
determine
follow
get
identify
include
inspect
install
necessary
outlined
page number
parts
problem
procedures
properly
related
relieve
removal
remove
repair
replace
several
signs
through
time
tools

BASIC MILITARY

in accordance with
series
technical manual

TECHNICAL

assembly
bleed
chipped
control handles
cracks
cycle
cylinder
dry-cleaning solvent
gun
howitzer
item number
leakage
loader and rammer hydraulic
subsystems
loader and rammer subsystem
hydraulic pressure
national stock number
paint thinner mineral
spirits
PLL Clerk
pressurize
rack teeth
rammer and loader control
valves
rammer traversing cylinder
section chief
traversing cylinder

301

304

MOS 13B

TASK NUMBER: 061-272-1478

TASK: Replace gun mount rail wipers on the M107/M110 series.

GENERAL ENGLISH

defective
discard
end
follow
front
get
identify
install
left
minute
necessary
new
old
order
page number
part
procedure
properly
rear -
remove
removal
replace
replacement
reverse
right
same
securing
through
tools
upper
worn

BASIC MILITARY

series
technical manual

TECHNICAL

cap screw
felt
gun
gun mount
howitzer
item number
lock washer
national stock number
PLL ~~set~~ clerk
preformed
rail
retaining plate
wiper

MOS 13B

TASK NUMBER: 061-272-1479

TASK: Maintain equilibrators on the M107/M110 series.

GENERAL ENGLISH

allow
assistant
below
check
closed
complete
empty
include
indicates
insure
install
maintain
minutes
necessary
open
properly
release
remove
slowly
specified
tag
tighten
tools
until
within

BASIC MILITARY

in accordance with
series
technical manual

TECHNICAL

air filling plug
air filling tube
allowable variations
assembly
bleed off
charge
equilibrator
filling hose
filling valve
gage
C charging procedures
gun
howitzer
nitrogen
nitrogen gas cylinder
nitrogen pressure
pounds per square inch
release valve
tee cap
valve opener

OPTIMUM
PRESSURE

MOS 13B

Task Number: 061-272-1480

Task: Replace the hydraulic pressure line filter element on the M107/M110 series

GENERAL

assemble

clean
cloth
completed
correctly

discard
dry

include
install
instructed
insure

lint-free

minutes

necessary
new

off
open

remove
repair kit
replace
reset

screw
secure
securely
set

task
tighten
tools

unscrew

BASIC MILITARY

series

technical manual

TECHNICAL

automatic shutoff valve

backup retainer
bowl

dry-cleaning solvent

filter
filter assembly
filter bowl
filter condition indicator
button
filter element

gun

head
howitzer
hydraulic pressure line

leak
lock wire

master switch

packings
preformed packing

304

MOS 13B

Task Number: 061-272-1473

Task: Repair the Cab/Turret wiring harness of the M107/M110 series

GENERAL

appropriate
assemble

breaks
broken

cause
components

damaged
defect
defective
describe
determine
disassemble

evidence
exists

following

get

identify
inspect

measure

nature
necessary

overheating

page number
parts
portion
problem
properly

repair
replace
required
restore

specific

through
tools

use

BASIC MILITARY

authorized

in accordance with

parts manual

series

technical manual

TECHNICAL

cab
cable
cable connector
connectors
coupling nut
cracks
C-washer

female type
ferrule
frayed

grommet
groove
gun

howitzer

insert
insulation
insulator
item number

male type
multimeter

national stock number
nut

panel mounting receptacle
physical damage
pin contacts
PLL clerk ~~PLUG~~
PLUG
section chief
self-propelled
shells
sleeve
socket contacts

terminals
terminal type
turret

voltage

washer
wire
wiring harness
working order

305

MOS 13B

Task Number: 061-272-1461

Task: Repair the cannon breech mechanism on the M107/M110 series gun/howitzer

GENERAL

appropriate
assemble
assistant

brief

defective
determine
disassemble

find

get

identify
inspect
insuring

malfunction

nature
necessary

page number
parts
problem
properly

repair
replace

through
tools

BASIC MILITARY

authorized
in accordance with

lubricated
lubrication order

outlined

parts manual

series

technical manual

TECHNICAL

breech mechanism
breechblock operating group

cannon

faulty

gun

howitzer

item number

national stock number

PLL clerk

section chief

Vocabulary for Tasks Listed Below Will Follow;

081-831-1002	Perform Cardiopulmonary Resuscitation - CPR
081-831-1009	Give First Aid to a Wet or Cold Injuries
071-329-1022	Locate an Unknown Point on a Map or on the Ground by Intersection
051-202-1003	Camouflage/Conceal Defensive Positions
071-331-0803	Collect/Report Information - SALUTE
071-311-2104	Engage Targets with an M203 Grenade Launcher and Apply Immediate Action to Reduce a Stoppage
051-192-1013	Disarm the M18A1 Fragmentation Antipersonnel Mine (Claymore) Equipped with and without Tripwires
071-312-3001	Operate an M60 Machinegun
071-312-2320	Mount/Dismount an M60 Machinegun on an M122 Tripod
071-313-3454	Engage Targets with a Caliber .50 Machinegun
071-327-0201	Maintain an Appropriate Level of Physical Fitness (Male Only)
061-267-1406	Operate an M101A1/M102 Under Unusual Conditions
061-267-1410	Assemble/Disassemble Breechblock and Firing Lock on the M101A1
061-269-1205	Lock/Unlock the Shield Flaps on the M114A1
061-269-1406	Operate an M114A1 Under Unusual Conditions
061-269-1410	Assemble/Disassemble Breech and Firing Mechanism on the M114A1
061-269-2227	Boresight the Panoramic Telescope on the M114A1 Using the Standard Angle Method
061-270-1501	Transport Cannon Ammunition on the M109/M109A1
061-270-1410	Assemble/Disassemble Breech and Firing Mechanism on the M109/M109A1
061-272-1410	Assemble/Disassemble Breech and Firing Mechanism on the M107/M110 Series
113-571-1003	Establish, Enter or Leave a Radio Net
113-571-1005	Send or Receive a Radiotelephone Message
113-573-4001	Use KAL-61B KTC 1400 Numerical Code to Authenticate Transmissions and Encrypt/Decrypt Numbers and Grid Zone Letters
113-573-8001	Use an Automated CEOI
51-193-1008	Make Detonating Cord Connections
051-193-1002	Construct a Nonelectric (Initiation) Detonating Assembly